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ABSTRACT

This booklet, designed for ages 10-12, is the fourth in a series designed to help teachers develop a more positive and creative approach to giving work on mathematics skills to children. It is based on objectives concerning creativity, fostering independent thinking, using experiences, using mastery, reinforcing previously learned skills, emphasizing choices and following directions, encouraging divergent thinking, and developing concepts. Each of the 40 pages may be reproduced by the teacher for student use. An answer key is included. (MNS)

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THE MATH MASTER

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SE 047 887

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Illustrated by
Evelyn Pesiri

THE MATH MASTER

Level 4

by
Barbara W. Levy

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Cover by Kathryn Hyndman

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Introduction

Workbooks can become boring and tedious. I hope this series can provide you with an exciting and enthusiastic approach to learning. As Jerome Bruner has said, "We often give children cut flowers instead of letting them grow their own."

It is my hope as the writer that these books will be the tools by which teachers can develop a more positive and creative approach to giving work. It is only with happy, self-confident children that learning can constantly take place, and good materials are only one key to each child's success.

Each child may need different paths to learning. There are better ways than others. This series has as its objectives:

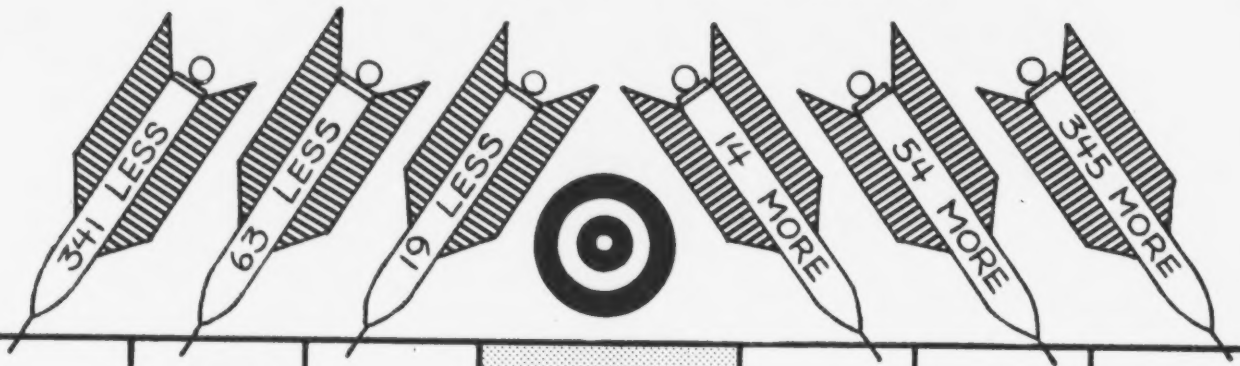
- creativity
- fostering independent thinking
- using the child's experience
- using mastery as the key
- reinforcing previously learned skills
- emphasizing the making of choices and the following of directions
- letting the child use divergent thinking rather than convergent thinking
- initiating several concepts on each page so that a teacher may work in a certain area, for example, visual perception skills and numerical recognition

Let the child expand his/her thinking and learning with challenge. Let the child learn to enjoy learning.

NAME _____

dart chart

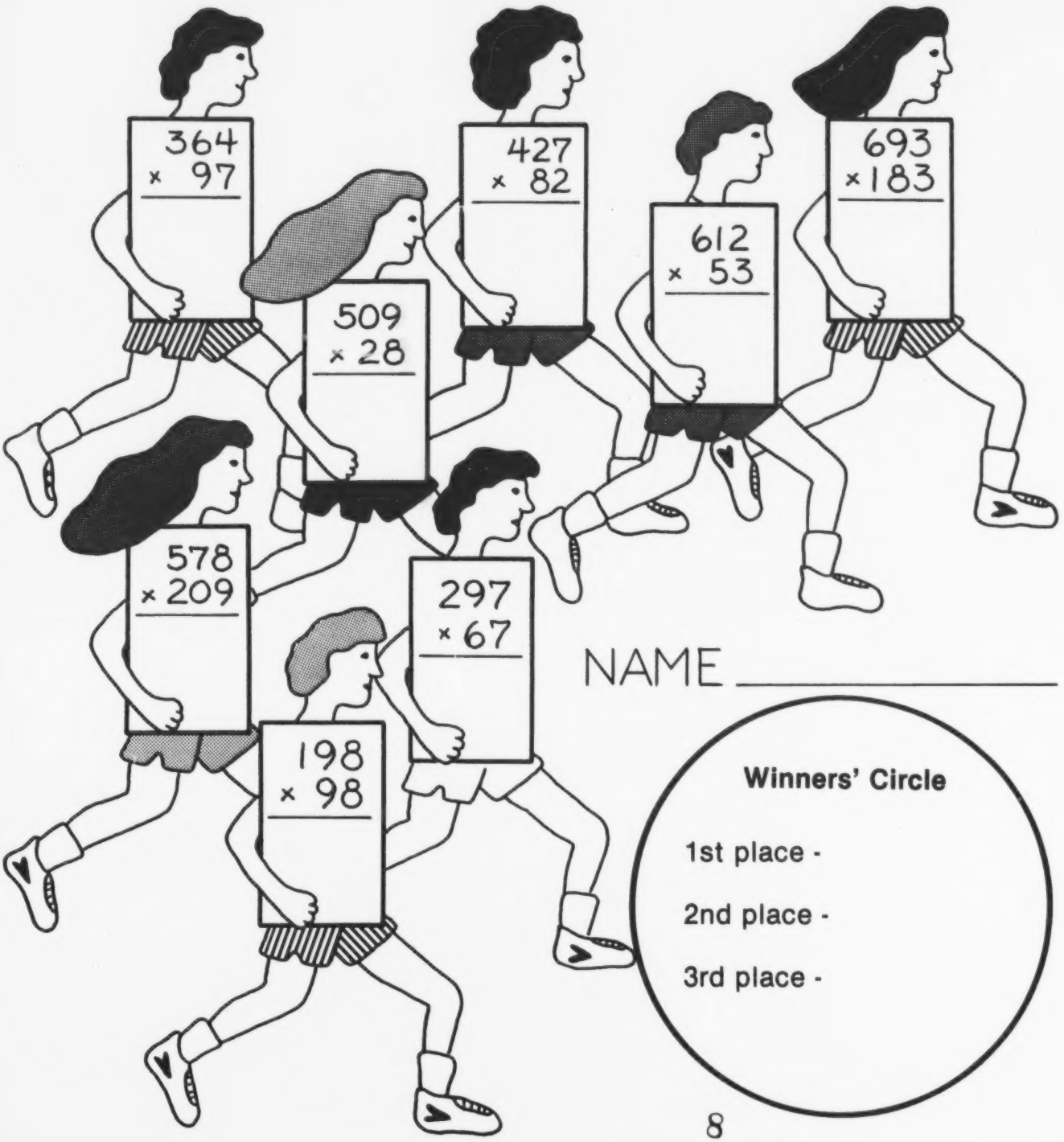
Study the chart and fill in the answers.



	309		372			
			864		918	
		577	596			
			7,489	7,503		
894			1,235			
			403			
			986			1,331
			3,561			

MATH MARATHON

Work the problems. The top three joggers with the highest scores win the race. Try estimating your answers before you begin.



NAME _____

Winners' Circle

1st place -

2nd place -

3rd place -

8

NAME _____

MISTEAKS

There are seven mistakes. Find each one and correct the answer.

$$\begin{array}{r} 8{,}943 \\ 1{,}637 \\ +\,2{,}896 \\ \hline 13{,}476 \end{array}$$

$$\begin{array}{r} 57{,}036 \\ -\,12{,}968 \\ \hline 45{,}068 \end{array}$$

$$\begin{array}{r} 483{,}215 \\ -\,197{,}828 \\ \hline 285{,}487 \end{array}$$

$$\begin{array}{r} 8{,}356 \\ \times\quad 6 \\ \hline 50{,}112 \end{array}$$

$$\begin{array}{r} 14{,}142 \\ 13{,}687 \\ +\,25{,}987 \\ \hline 53{,}916 \end{array}$$

$$\begin{array}{r} 547 \\ \times\ 39 \\ \hline 4923 \\ 1641 \\ \hline 21{,}233 \end{array}$$

$$\begin{array}{r} 256{,}153 \\ -\,198{,}094 \\ \hline 58{,}059 \end{array}$$

$$\begin{array}{r} 26 \\ \times\ 84 \\ \hline 104 \\ 208 \\ \hline 2284 \end{array}$$

$$\begin{array}{r} 592{,}140 \\ -\,198{,}056 \\ \hline 394{,}084 \end{array}$$

$$\begin{array}{r} 4609 \\ \times\ 735 \\ \hline 23045 \\ 13827 \\ 32263 \\ \hline 3{,}387{,}615 \end{array}$$

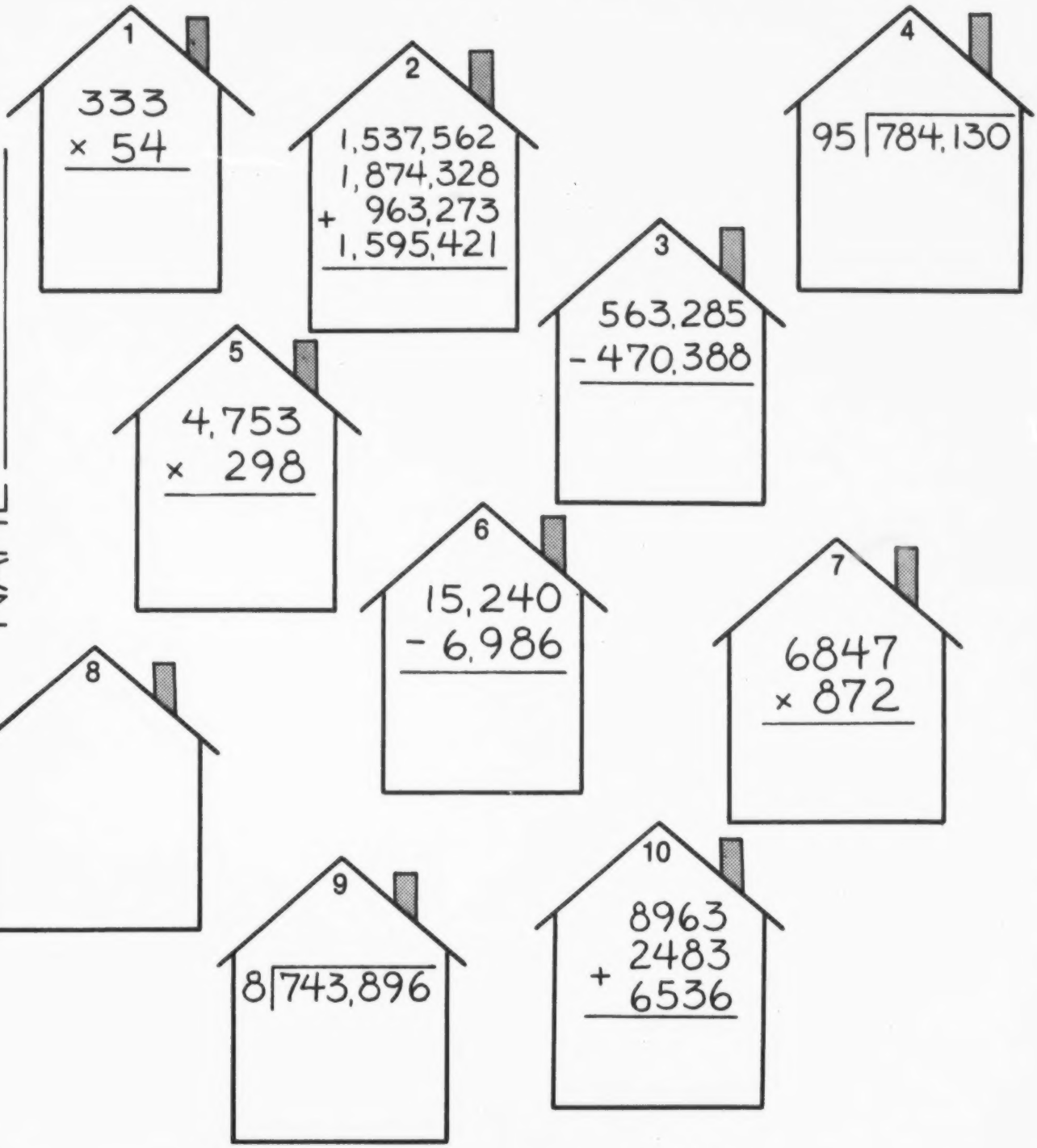
$$\begin{array}{r} 181{,}525 \\ 376{,}386 \\ 482{,}912 \\ +\,634{,}841 \\ \hline 1{,}674{,}664 \end{array}$$

$4368 \div 52 = 84$

MATH PATH

Work the problems. Find the matching houses. Mark them.

NAME _____



HIDE and SEEK

3,424	+	85	×	9	÷	389
÷		×		÷		+
8	×	652	−	285	−	427
+		−		−		+
26	×	15	−	34	×	28
×		−		+		×
6	−	13	÷	273	+	914
÷		÷		×		−
2,862	+	93	×	8	×	525

Below are the answers. Above are the problems. Figure out what to do.

390
367
389
428

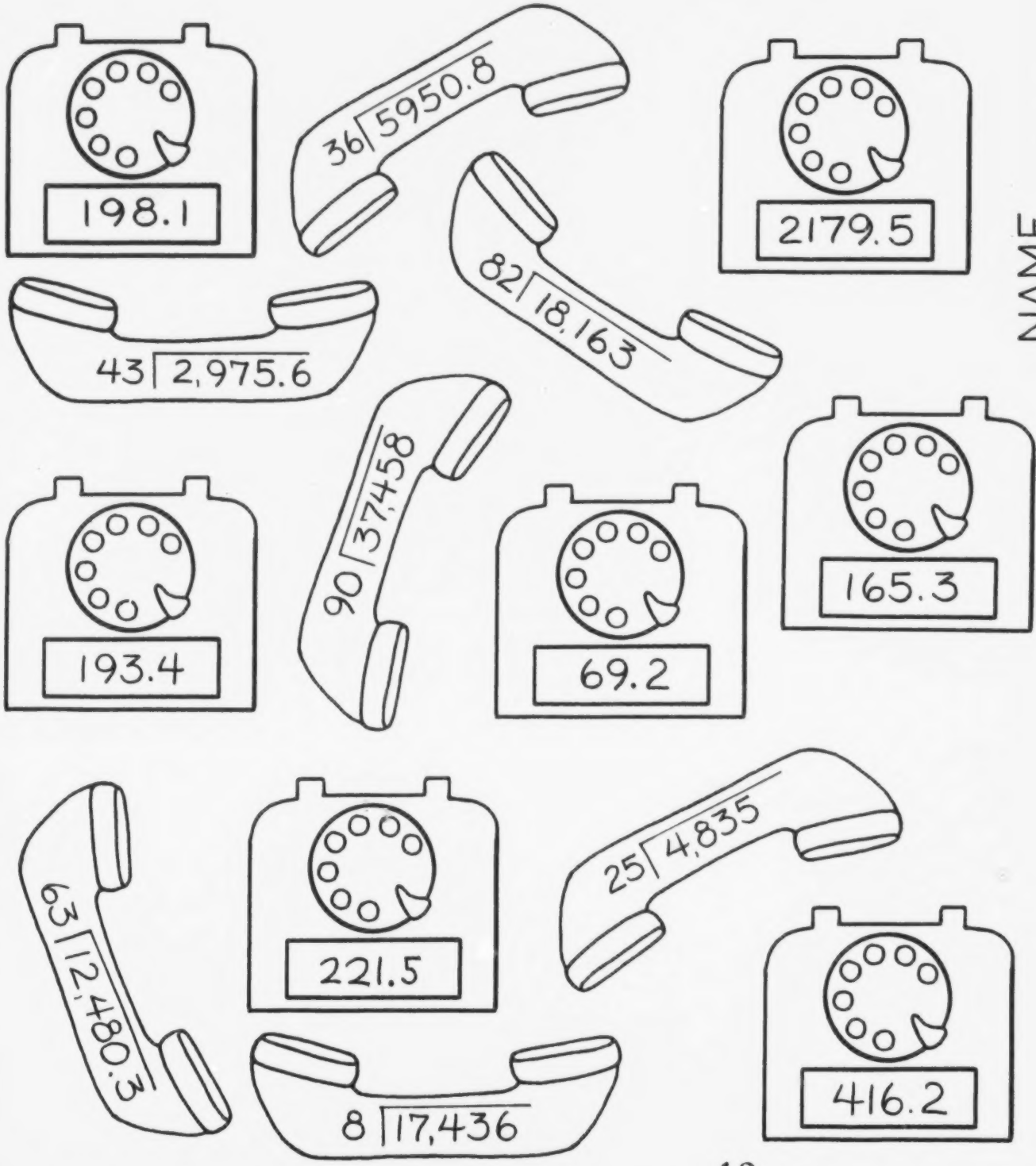
477
744
816
952

NAME _____

OFF THE HOOK

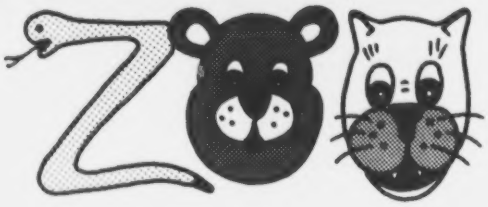
Each telephone needs a receiver. Work each problem.

NAME _____



12

THE ZOO



NAME _____

1. There were 756 penguins, 334 sea lions, 243 seals, and 1,543 different kinds of fish in the aquatic house. How many animals and fish altogether? _____

   The manager of the zoo transferred 225 penguins along with 65 sea lions and 19 seals to another zoo. Now, how many animals and fish were left? _____

2. There were 16 pairs of monkeys, 3 pairs of gorillas, 8 pairs of orangutans, and 12 pairs of baboons. There were also 74 other kinds of monkeys. How many monkeys in all? _____

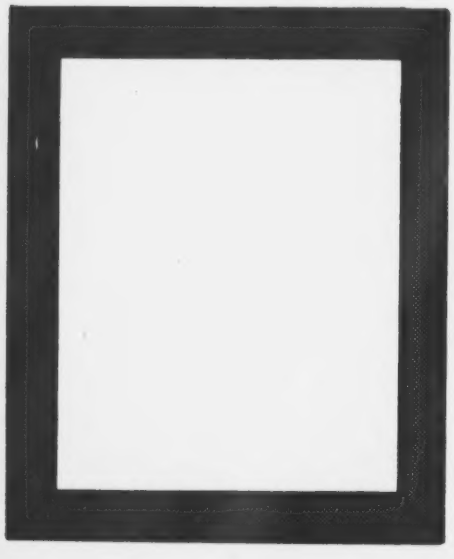
3. Our zoo started with 14,562 animals. However, due to illness, we lost one-third of the animals. How many are left? _____

4. There are 68 oversized cages for the 13,668 birds. How many birds per cage? _____

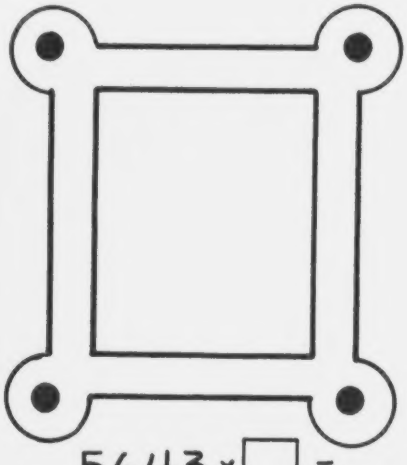
5. There was a zoofari party last week. Fifteen thousand people came and ate 8 cases of salmon (12 per case), 9 cases of cheese (15 wheels per box), 16 packs of little hot dogs (12 per pack), and 25 boxes of crackers (4 per box). How many delicious morsels were eaten? _____ Also 95 cases of soft drinks were sold (10 bottles per case). How much was drunk? _____

ART GALLERY

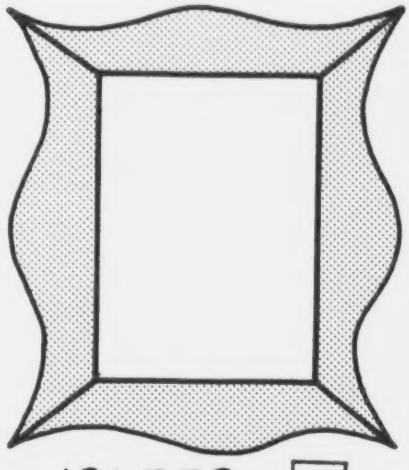
Work the problems. Then in each frame draw in a sports, science fiction or *inanimate* object.



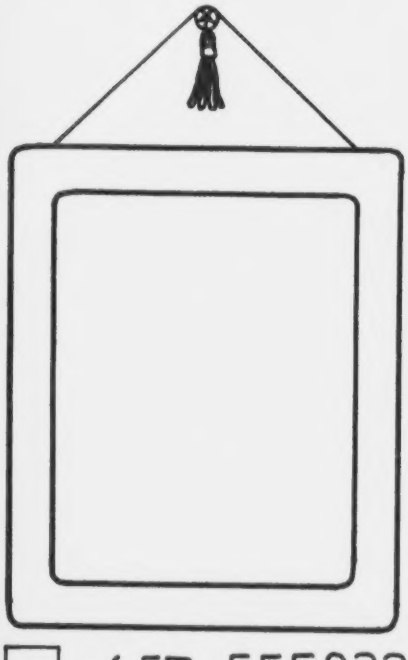
69,452 ÷ 84 =



5,643 × □ = 306,008



181,332 ÷ □ = 46



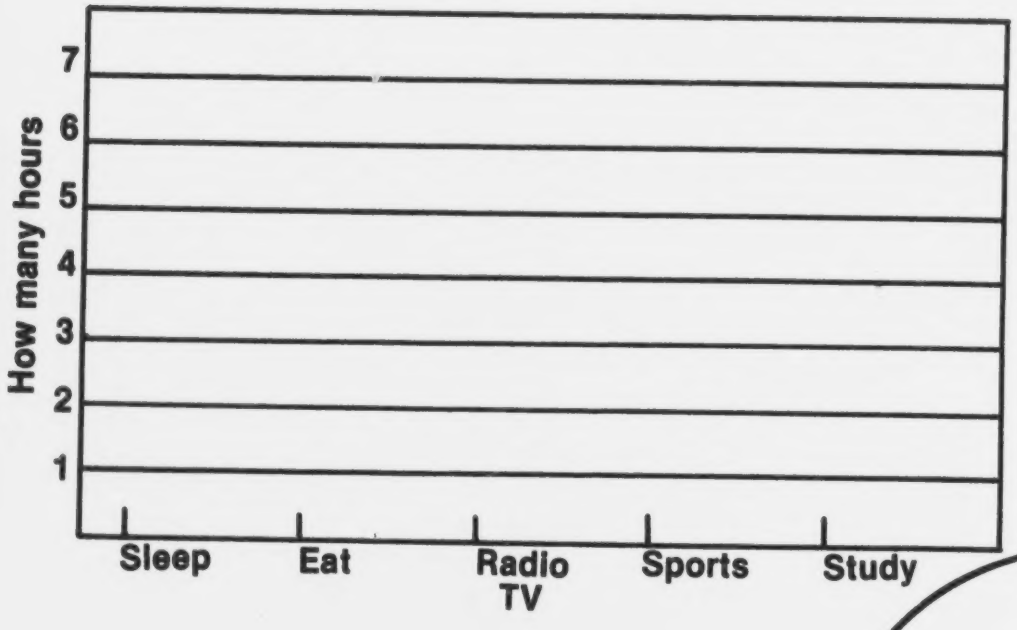
□ × 657 = 555,822

652,401 − □ = 35,699

3,695 + 4,734 + □ + 7,109 = 18,390

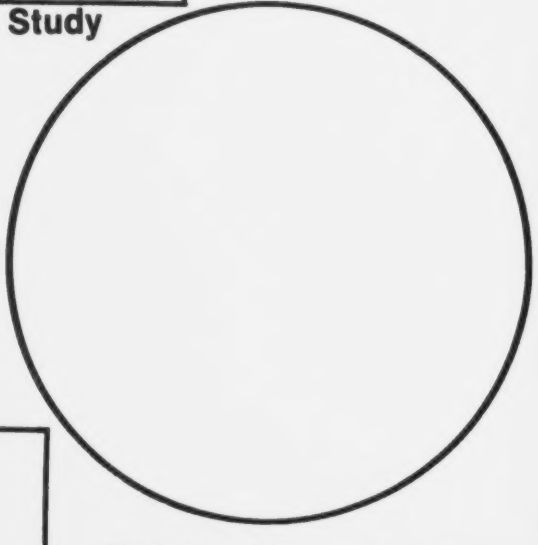
Artist: _____

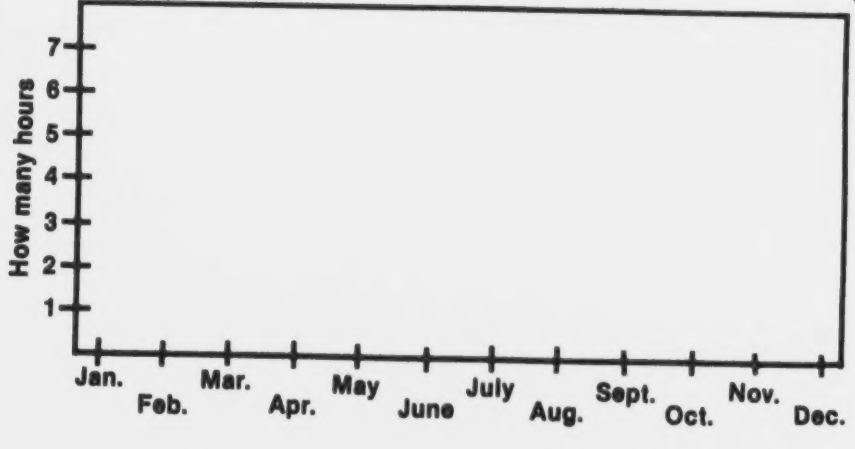
The Daily News



1) Make a *bar graph* of what you do all day.

2) Make a *circle graph* of how much you study in at least 4 specific subjects. (Subjects may vary.)



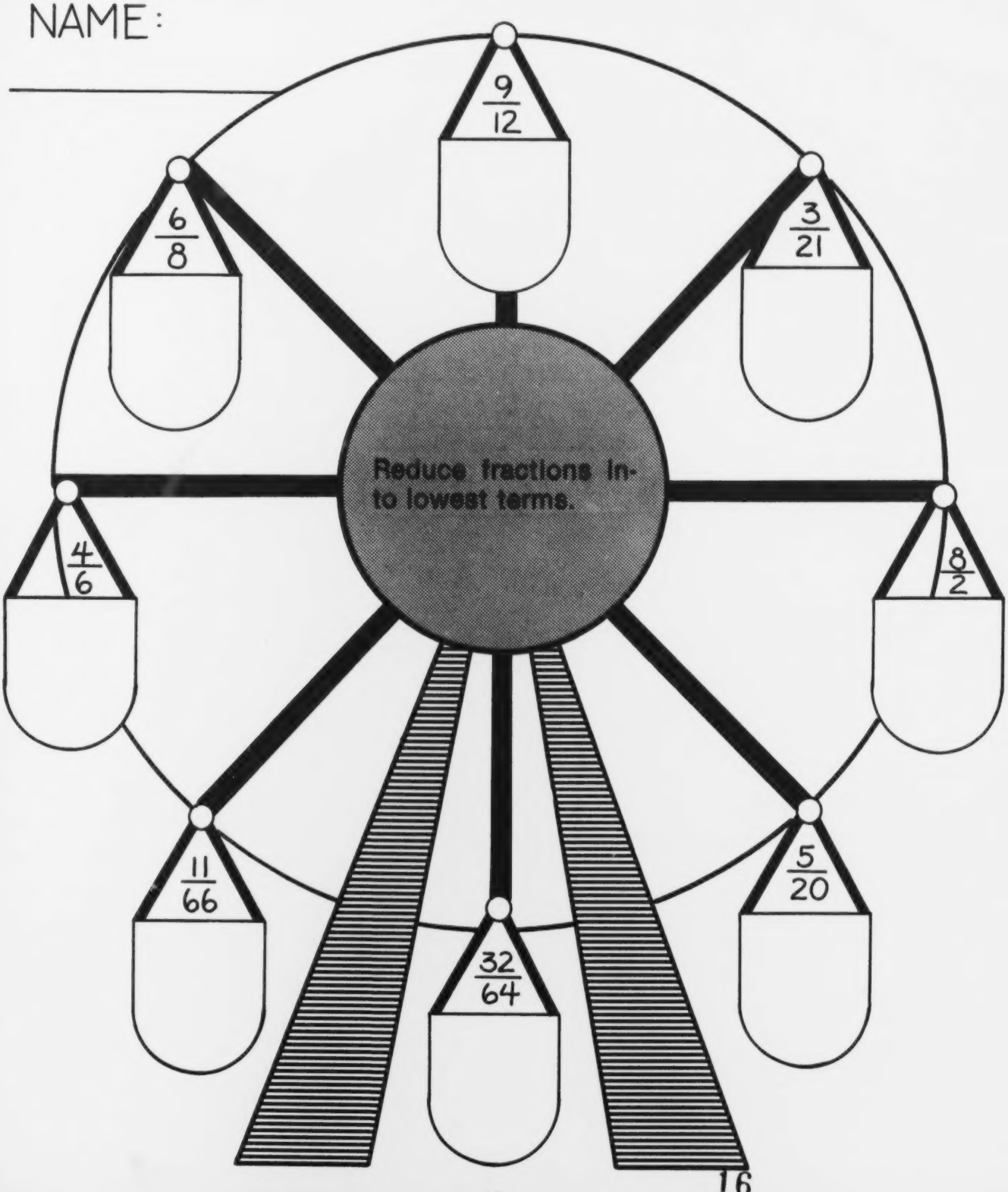


3) Make a *line graph* of how much you study and how much free time you have. (Two lines may intersect; use different colors.)

NAME: _____

FERRIS WHEEL

NAME: _____



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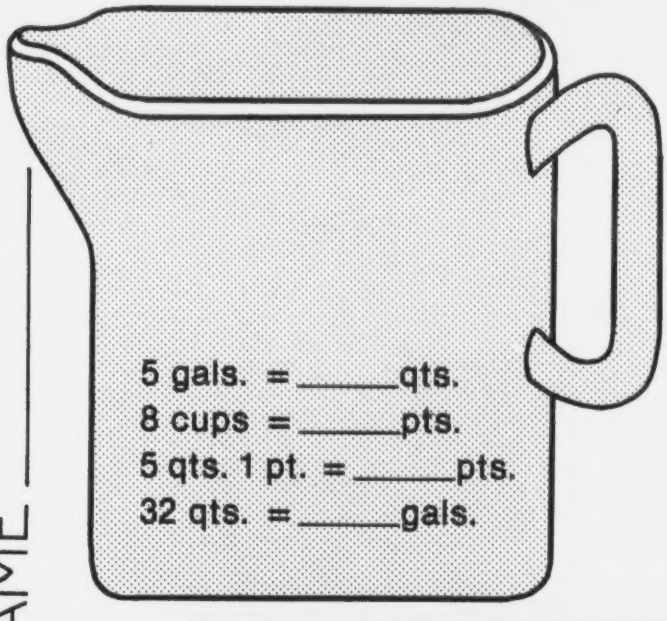
TIME AND SPACE

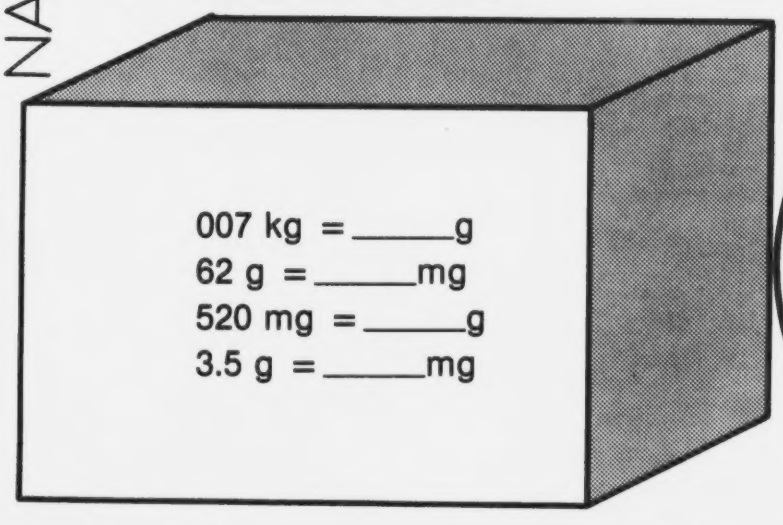
3 lbs. 6 oz. = _____ oz.
86 oz. = _____ lbs. _____ oz.

NAME _____

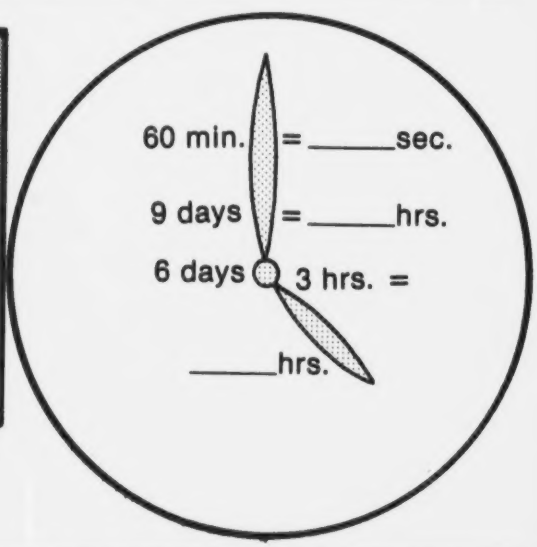


5 gals. = _____ qts.
8 cups = _____ pts.
5 qts. 1 pt. = _____ pts.
32 qts. = _____ gals.

8 yds. = _____ ft.
59 in. = _____ ft. _____ in.
15 ft. = _____ yds.
3 mi. = _____ ft.
2 mi. 320 ft. = _____ yds.
_____ ft.



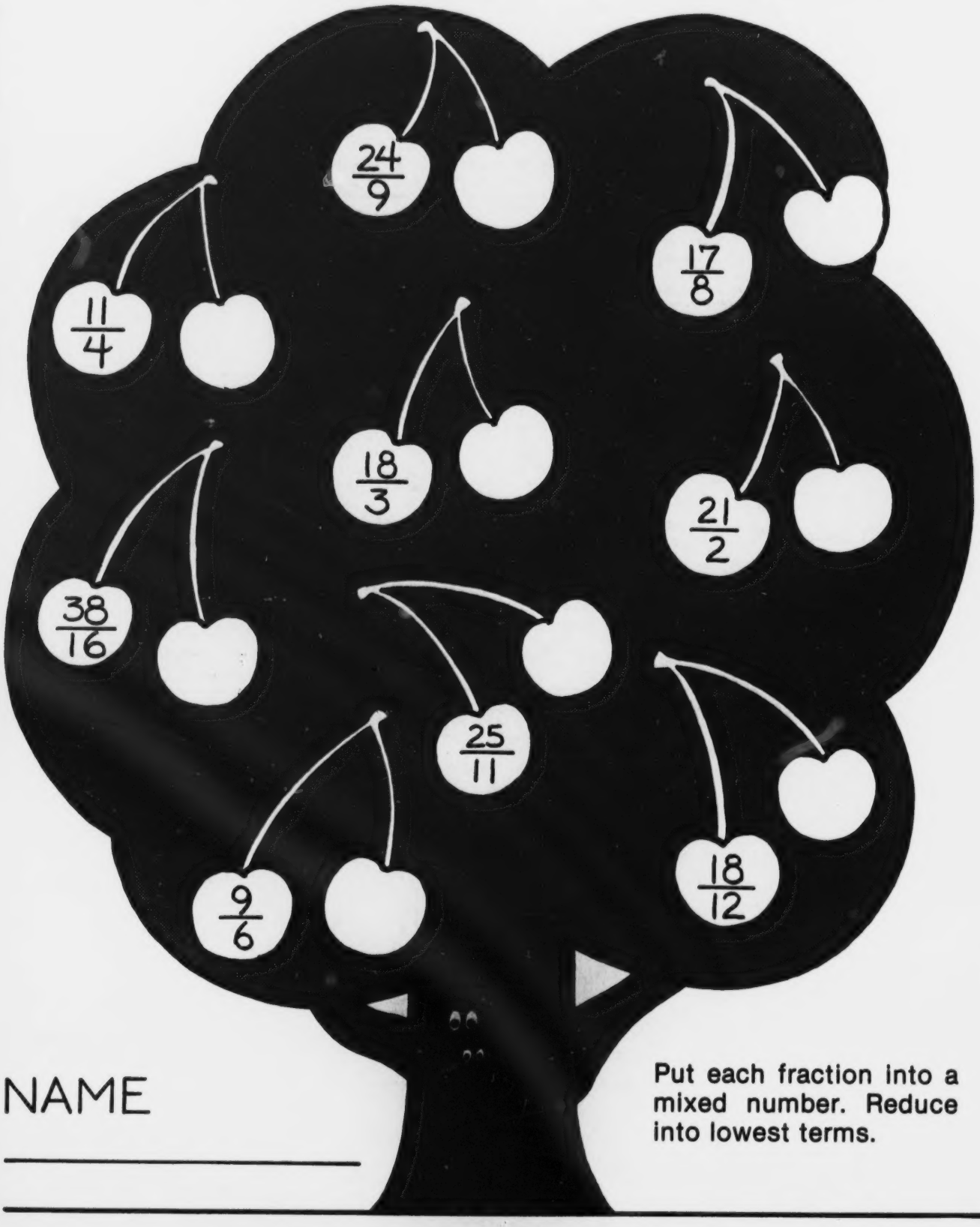
007 kg = _____ g
62 g = _____ mg
520 mg = _____ g
3.5 g = _____ mg



60 min. = _____ sec.
9 days = _____ hrs.
6 days 3 hrs. =
_____ hrs.

64 mm = _____ cm .08 cm = _____ mm 11km = _____ m

THE CHERRY TREE



NAME _____

Put each fraction into a mixed number. Reduce into lowest terms.

BUBBLES

Work the problems.

$$\begin{array}{r} 8\frac{3}{8} \\ +\ 9\frac{1}{2} \\ \hline \end{array}$$

$$\begin{array}{r} 15\frac{2}{5} \\ +\ 18\frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 154\frac{5}{6} \\ +\ 125\frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 253\frac{3}{7} \\ +\ 145\frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 63\frac{3}{4} \\ +\ 75\frac{5}{8} \\ \hline \end{array}$$

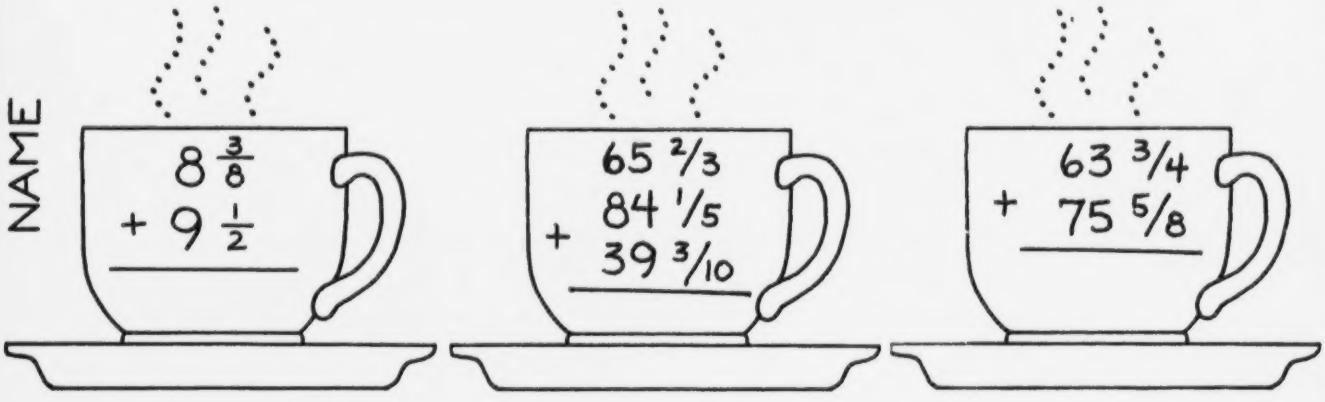
$$\begin{array}{r} 146\frac{1}{2} \\ 239\frac{3}{8} \\ +\ 137\frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 65\frac{2}{3} \\ 84\frac{1}{5} \\ +\ 39\frac{3}{10} \\ \hline \end{array}$$

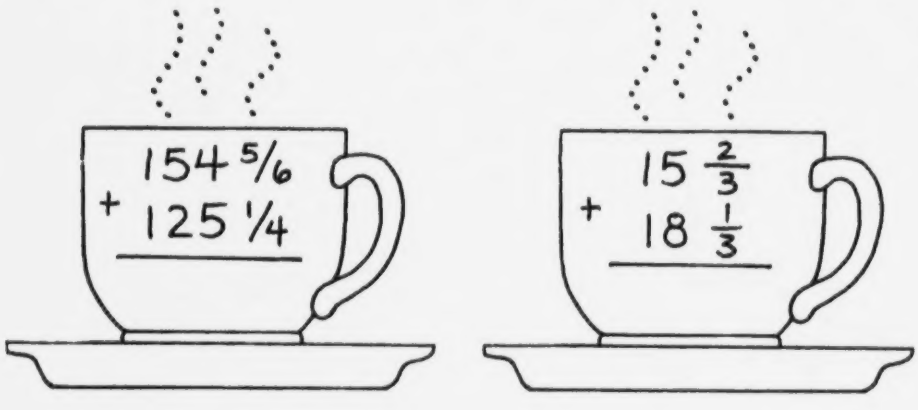
NAME _____

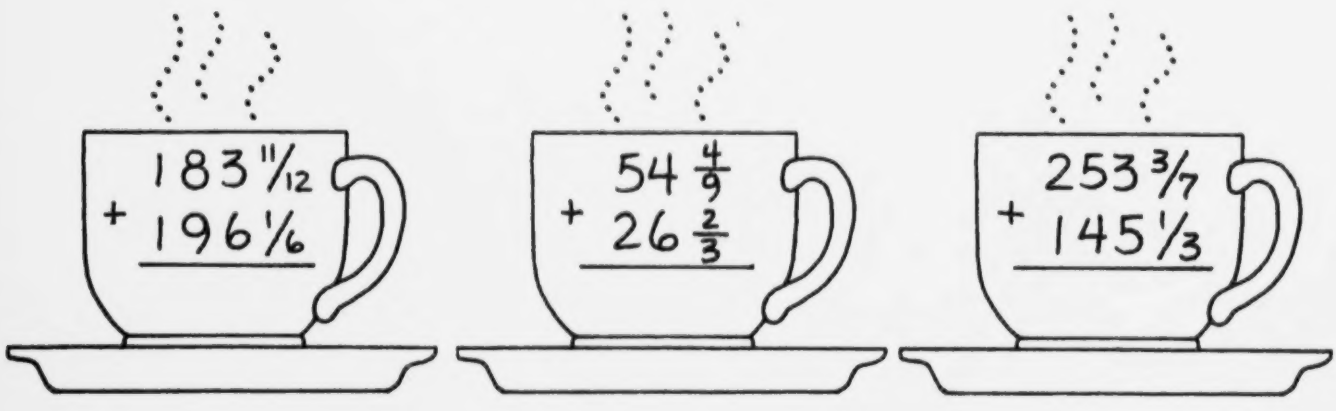
TEA TIME

NAME



Work the problems.





PATTERNING

Complete each pattern.

396, 400, 408, 420, ____, ____, ____, ____, ____

750, 870, 930, 960, ____, ____, ____, ____, ____

1347, 1410, 1536, 1788, ____, ____, ____, ____, ____

955, 964, 970, 973, ____, ____, ____, ____, ____

684, 659, 631, 599, ____, ____, ____, ____, ____

23, 38, 57, 81, ____, ____, ____, ____, ____

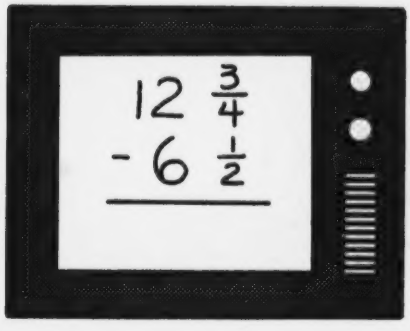
2656, 2636, 2606, 2566, ____, ____, ____, ____, ____

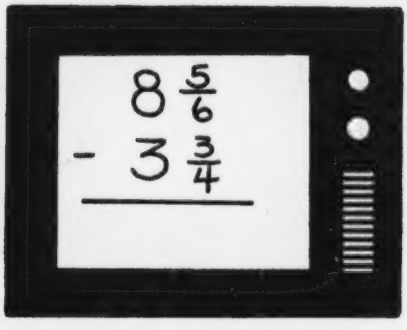
427, 517, 467, 527, ____, ____, ____, ____, ____

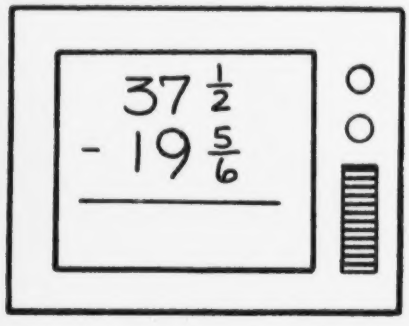
NAME _____

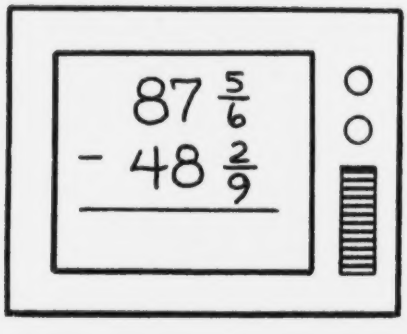
TV TIME

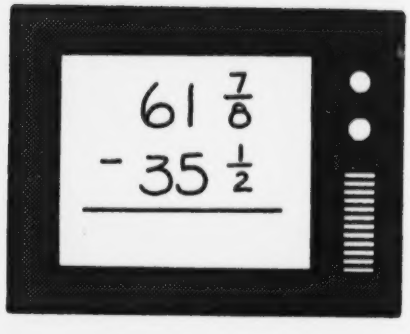
Work the problems. Be sure to reduce your fractions!



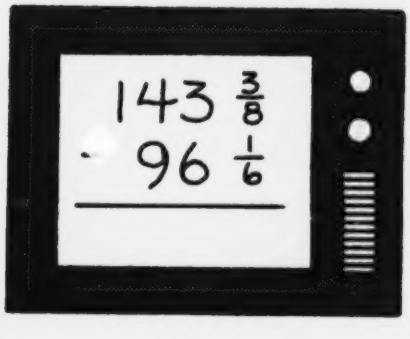


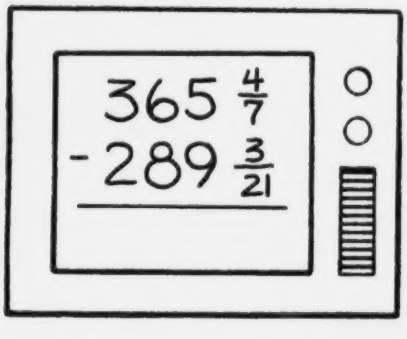


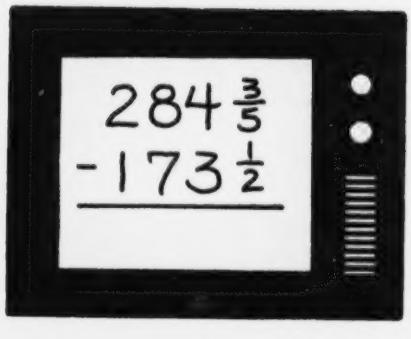




What is your favorite program? _____







NAME _____

AS EASY AS PIE

Draw a line matching each problem on the side to its answer in the middle. Two answers need problems. Make up the problems.

$7\frac{1}{2} \times 5\frac{1}{3} =$

$\frac{4}{9} \times \frac{3}{8} =$

$\frac{1}{8} \times \frac{4}{5} =$

$\frac{2}{3} \times \frac{9}{10} =$

$\frac{3}{22} \times \frac{11}{12} =$

$10 \times \frac{9}{10} =$

$\frac{2}{3}$
$\frac{1}{10}$
$\frac{1}{8}$
$\frac{3}{5}$
9
40
$\frac{1}{6}$
$\frac{1}{2}$

$= \frac{5}{8} \times \frac{4}{15}$

$= \frac{3}{8} \times \frac{1}{3}$

$= \frac{5}{7} \times \frac{21}{25}$

$= \frac{4}{9} \times 90$

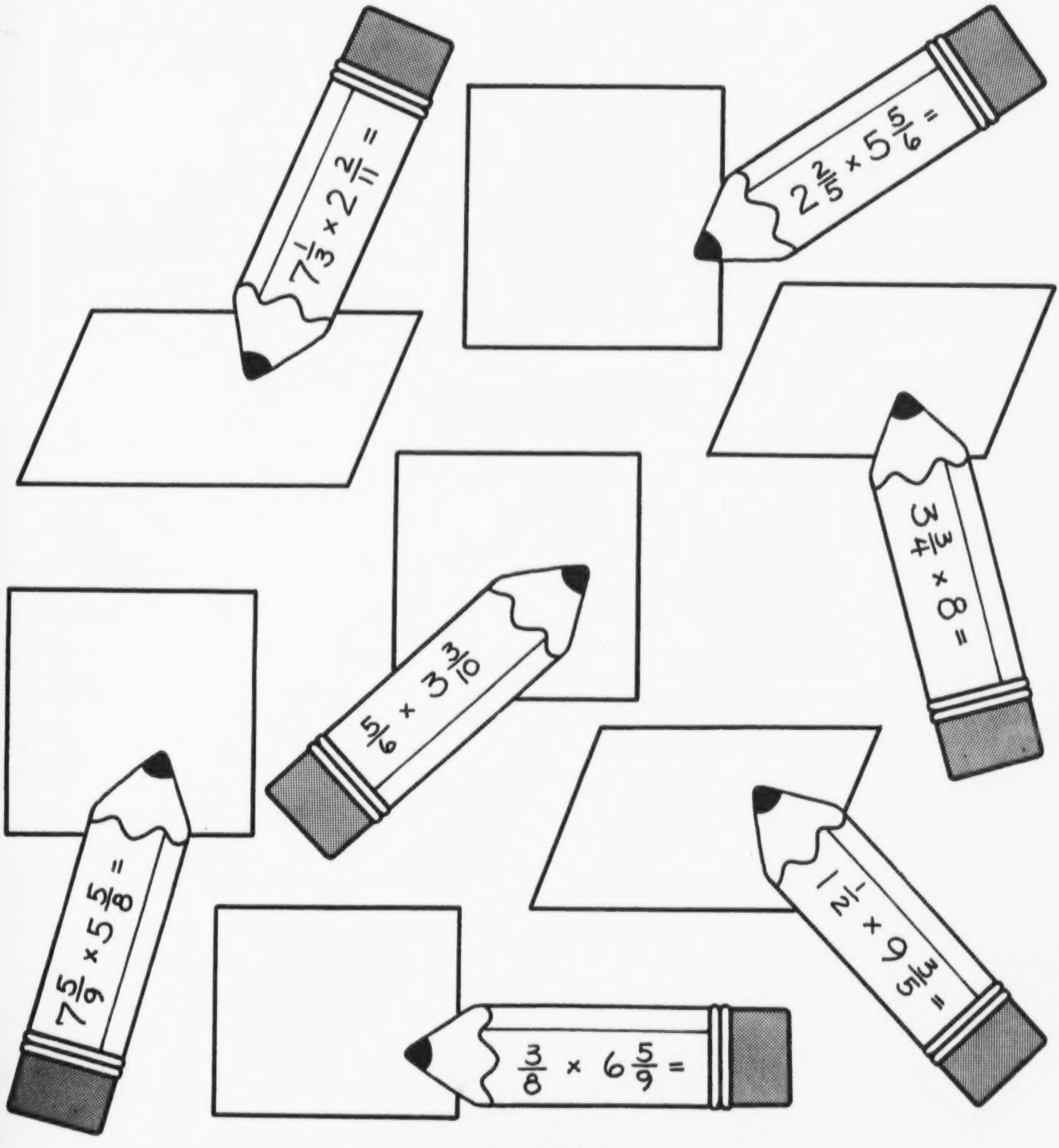
$= \frac{3}{4} \times \frac{2}{15}$

$= \frac{3}{4} \times 12$

NAME _____

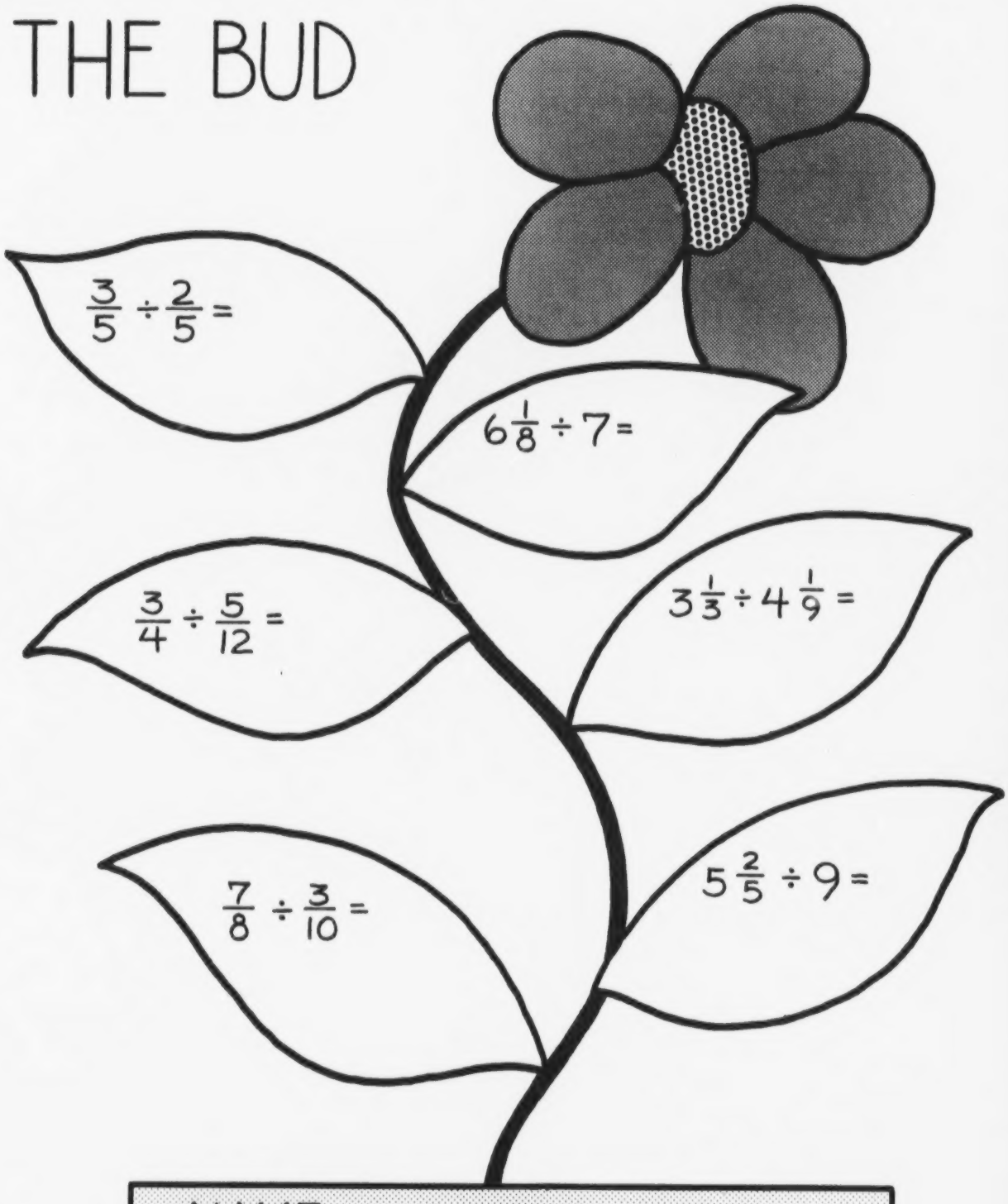
PAPER CAPER

Work the problems.



NAME _____

THE BUD

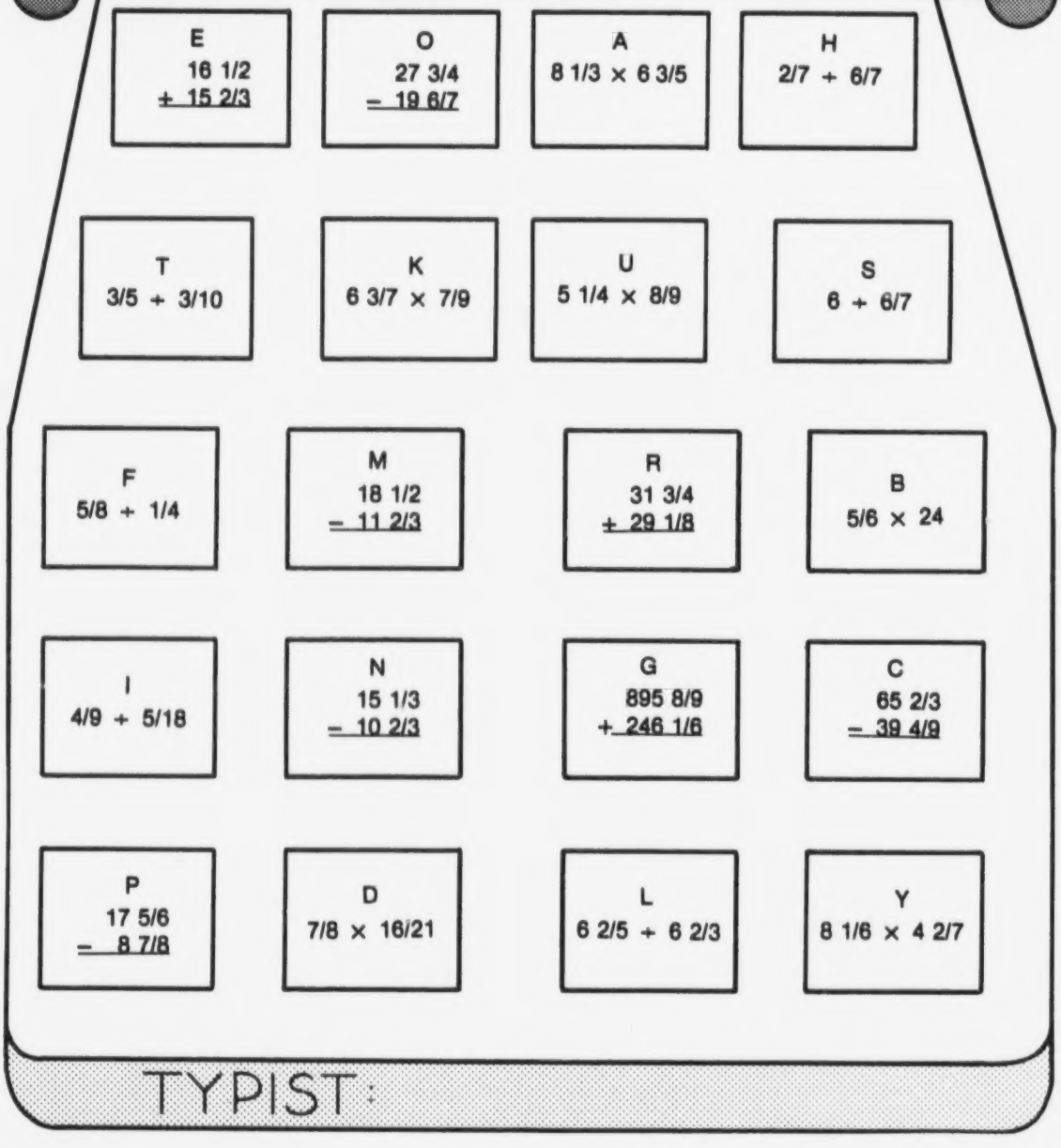


NAME _____

Work each problem!
Reduce!

PRACTICE YOUR TYPING

Choose a word from the list. Type the letters by doing the problems. Put the answers on the specific keys. Circle the word you picked.



Words to be typed

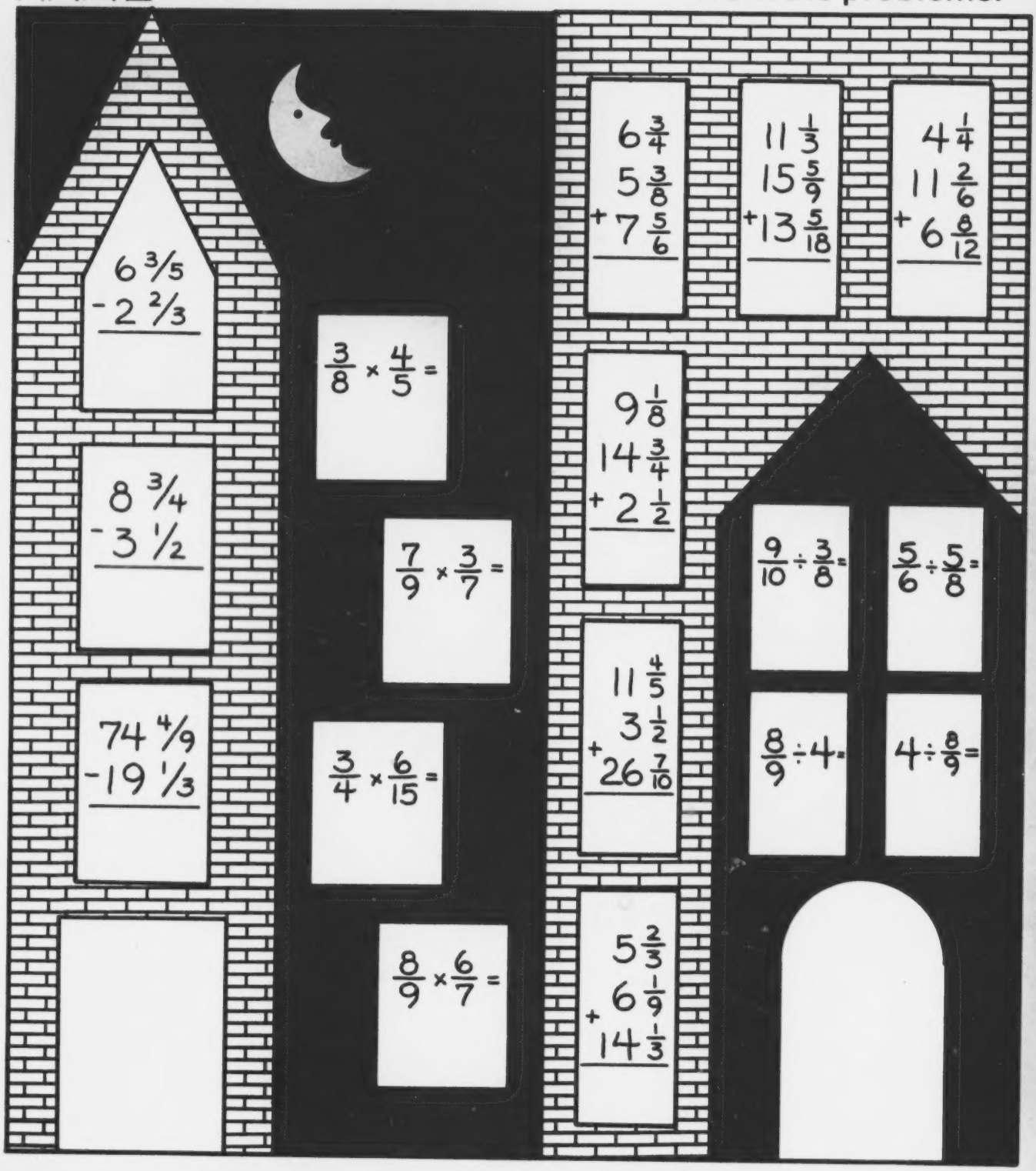
1. ardently
2. biorhythm
3. disloyalty
4. eruption
5. cosmetic
6. grandson

26

MATH CITY

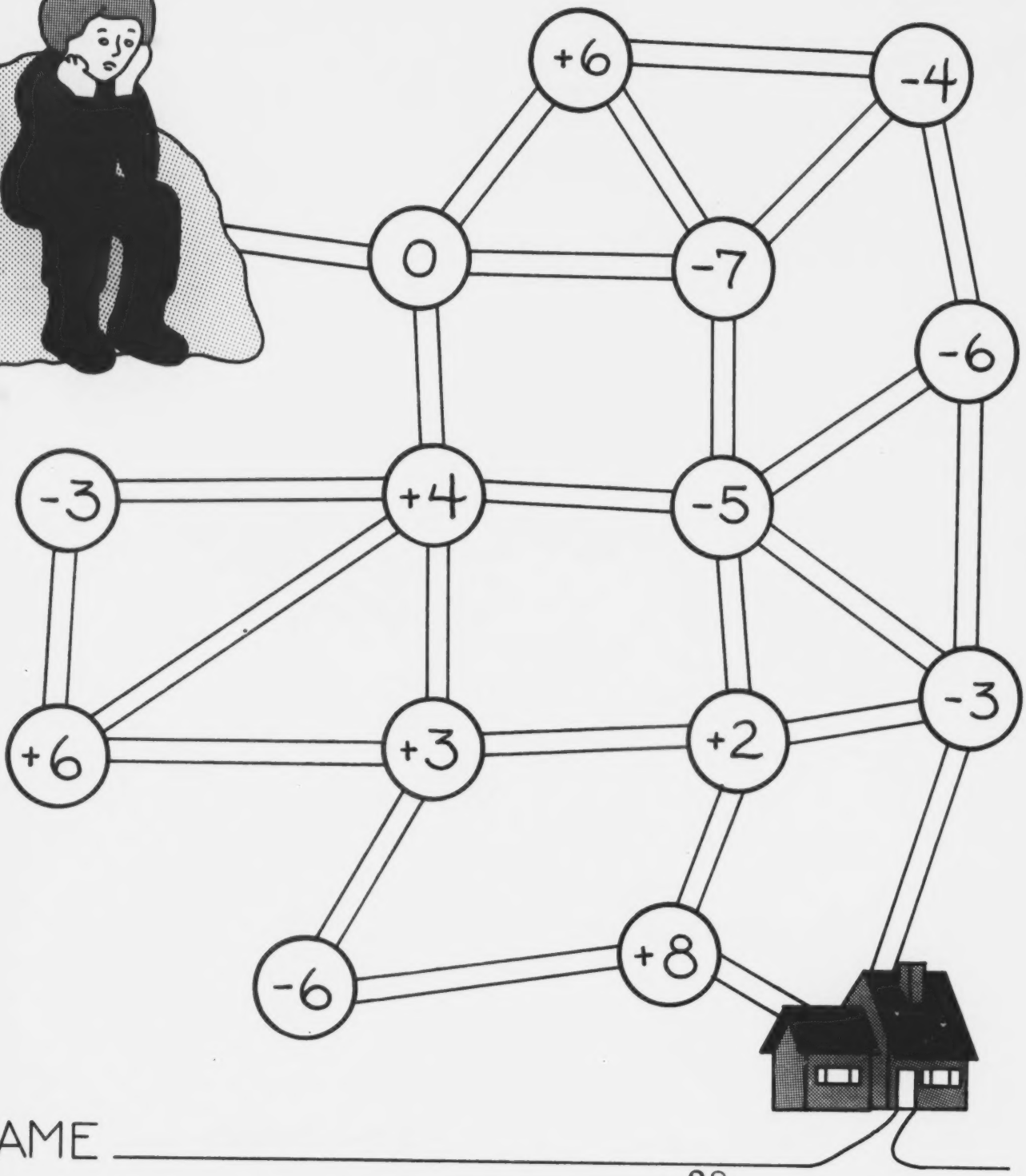
NAME

Work the problems.


$6\frac{3}{5} - 2\frac{2}{3}$
$8\frac{3}{4} - 3\frac{1}{2}$
$74\frac{4}{9} - 19\frac{1}{3}$
$\frac{3}{8} \times \frac{4}{5} =$
$\frac{7}{9} \times \frac{3}{7} =$
$\frac{3}{4} \times \frac{6}{15} =$
$\frac{8}{9} \times \frac{6}{7} =$
$6\frac{3}{4} + 5\frac{3}{8} + 7\frac{5}{6}$
$11\frac{1}{3} + 15\frac{5}{9} + 13\frac{5}{18}$
$4\frac{1}{4} + 11\frac{2}{6} + 6\frac{8}{12}$
$9\frac{1}{8} + 14\frac{3}{4} + 2\frac{1}{2}$
$11\frac{4}{5} + 3\frac{1}{2} + 26\frac{7}{10}$
$5\frac{2}{3} + 6\frac{1}{9} + 14\frac{1}{3}$
$\frac{9}{10} \div \frac{3}{8} =$
$\frac{5}{6} \div \frac{5}{8} =$
$\frac{8}{9} \div 4 =$
$4 \div \frac{8}{9} =$

IT'S A-MAZE-ING

Please get me home using your knowledge of addition and subtraction of integers. I'll be home if you end with 0.

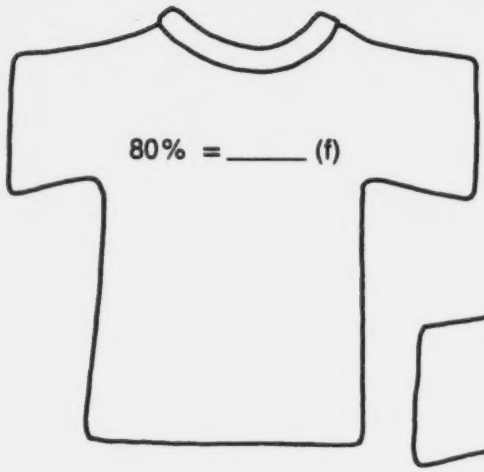


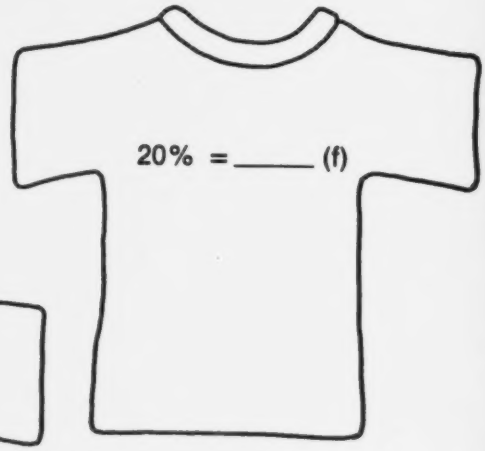
NAME _____

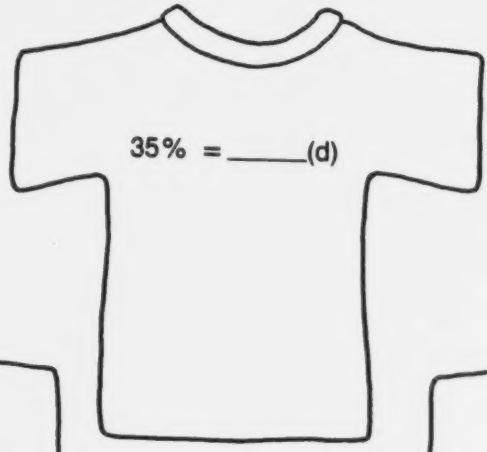
28

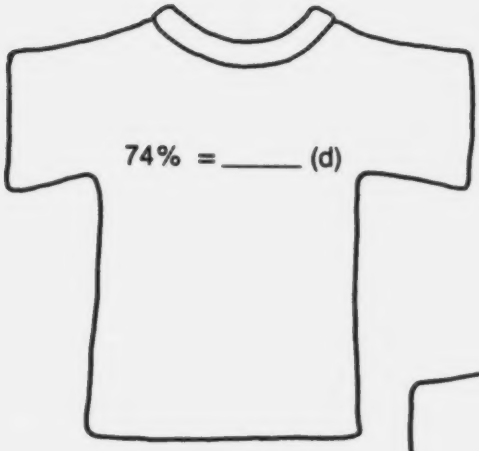
T-SHIRTS

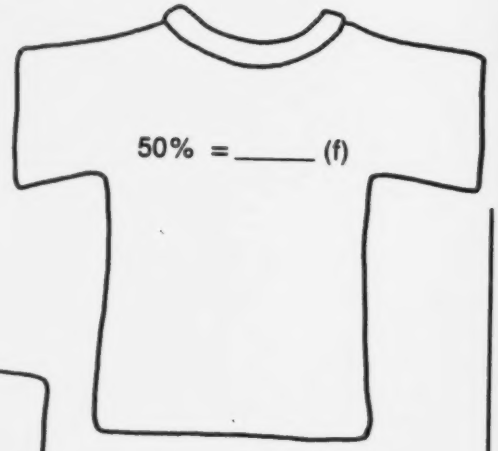
Put the percent into a fraction (f) or a decimal (d).
Make up a slogan
for each shirt.

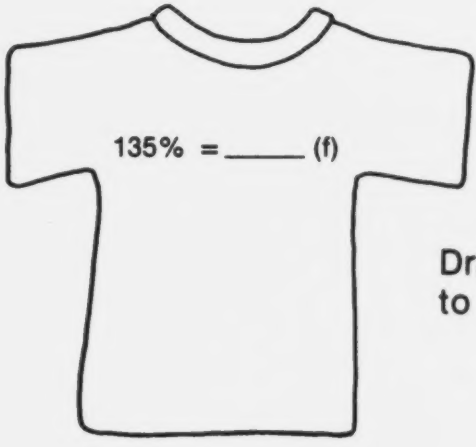












Draw your own and give
to a friend.

NAME _____

NAME _____

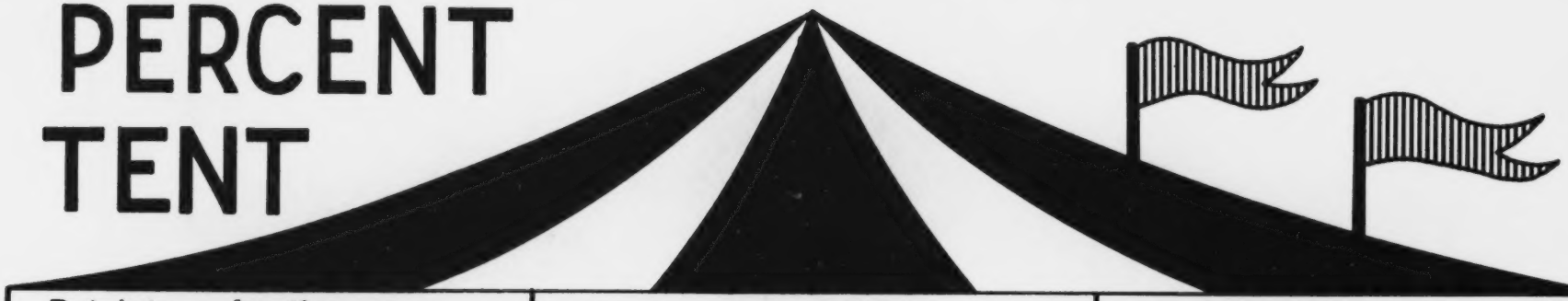
1. You see a home computer that is $850 at the original price. What is the sale price? _____

2. Each record is $8.00 regularly priced. You want 3 records at 25% off. What is the total amount you will spend? _____

3. There were 2 books you found specially marked at 1/2 of the original $12.50 each. You then picked 4 comic books at $1.25 each, less 20%. How much did you spend for all your books? _____ How much did you save by coming to the sale? _____

4. You had $25.00 to spend. You found a record regularly priced at $12.00, a book at $10.00, a video cartridge at $9.00. How much did you spend at the sale price for all 3 items? _____ Did you have any money left? _____ How much? _____

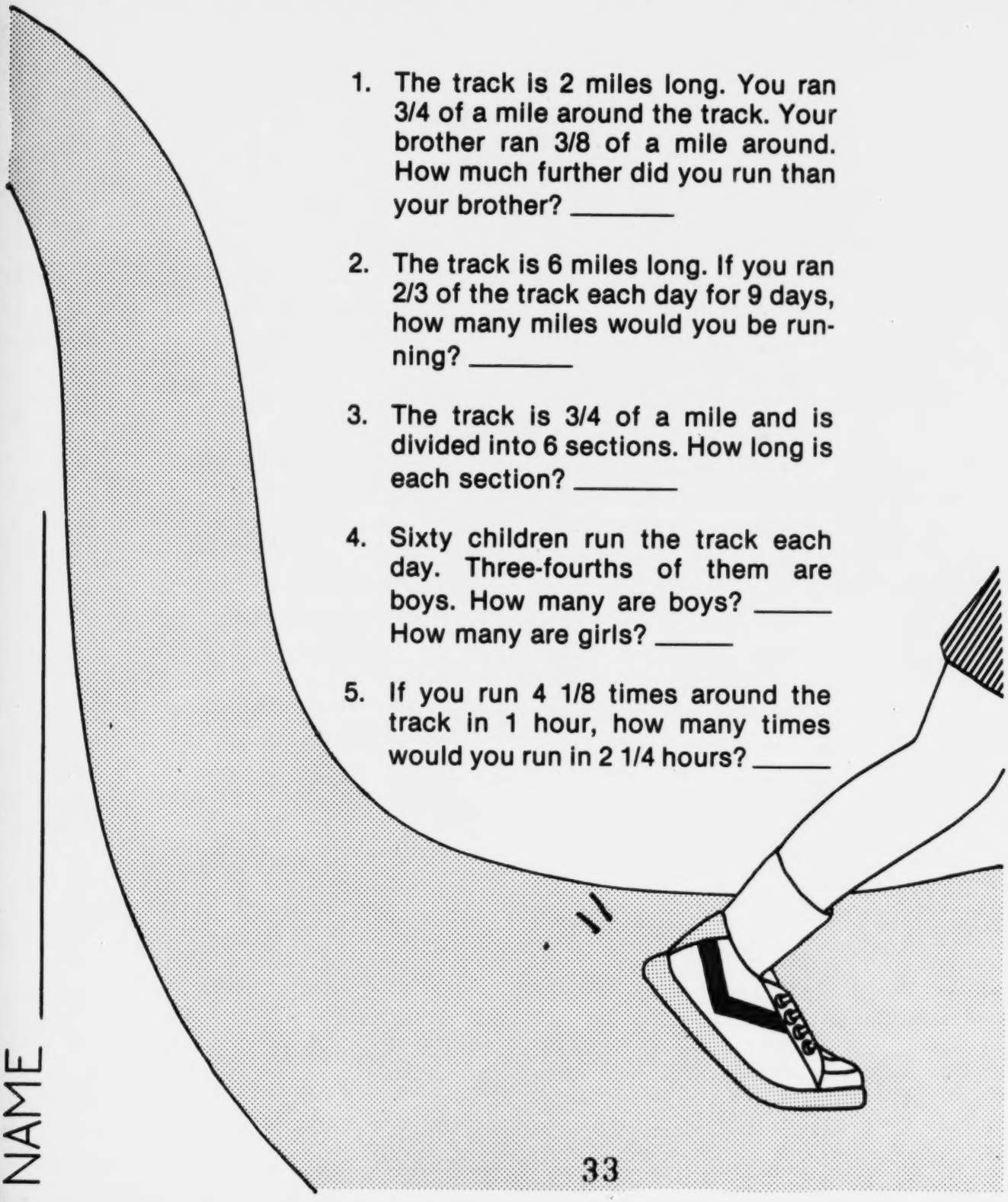
PERCENT TENT



NAME _____

Put into a fraction or mixed number.	Change each to a percent.	Change each to a percent.
10%	$\frac{3}{4}$	.8
65%	$8\frac{1}{10}$	.04
130%	$4\frac{1}{4}$	.564
32%	$\frac{6}{25}$	.025
240%	$\frac{3}{20}$	.1275
86%	$6\frac{1}{5}$	.0032
110%	$\frac{17}{50}$	.25

"On Track" in Math



1. The track is 2 miles long. You ran 3/4 of a mile around the track. Your brother ran 3/8 of a mile around. How much further did you run than your brother? _____

2. The track is 6 miles long. If you ran 2/3 of the track each day for 9 days, how many miles would you be running? _____

3. The track is 3/4 of a mile and is divided into 6 sections. How long is each section? _____

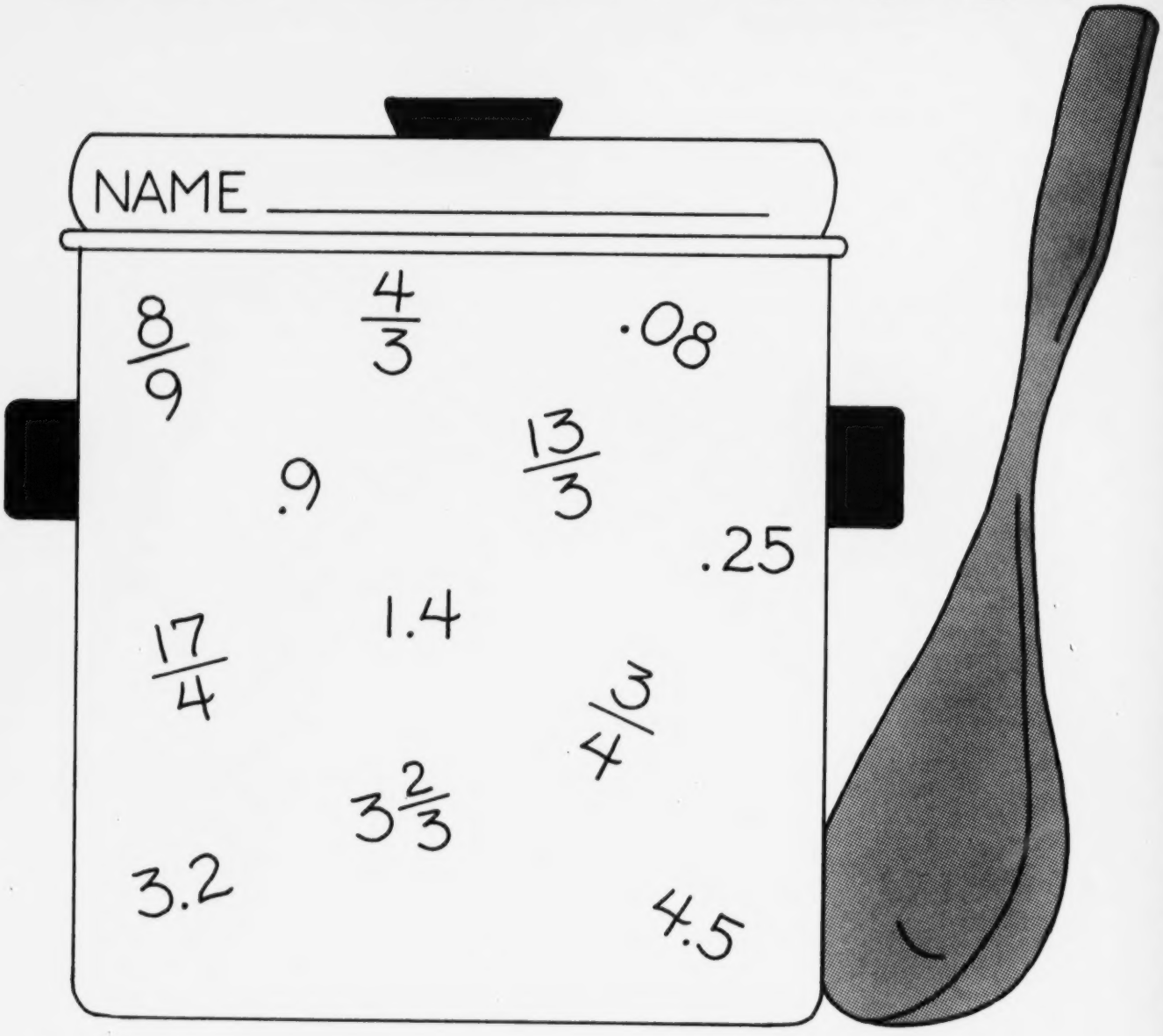
4. Sixty children run the track each day. Three-fourths of them are boys. How many are boys? _____ How many are girls? _____

5. If you run 4 1/8 times around the track in 1 hour, how many times would you run in 2 1/4 hours? _____

NAME _____

33

NUMBER SOUP



Order these fractions and decimals from least to greatest.

_____ _____ _____

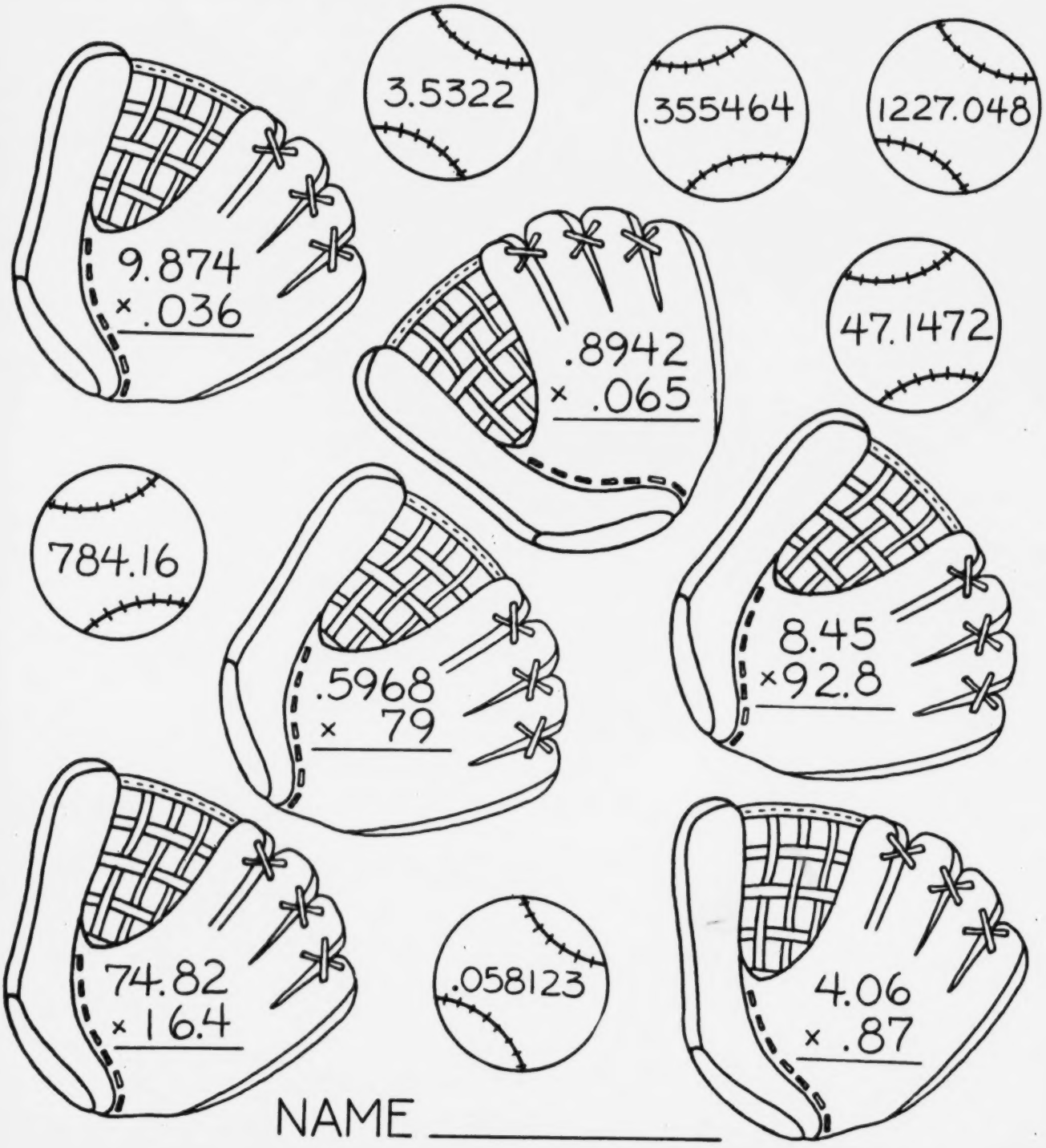
_____ _____ _____

_____ _____ _____

_____ _____ _____

MATH MITTS

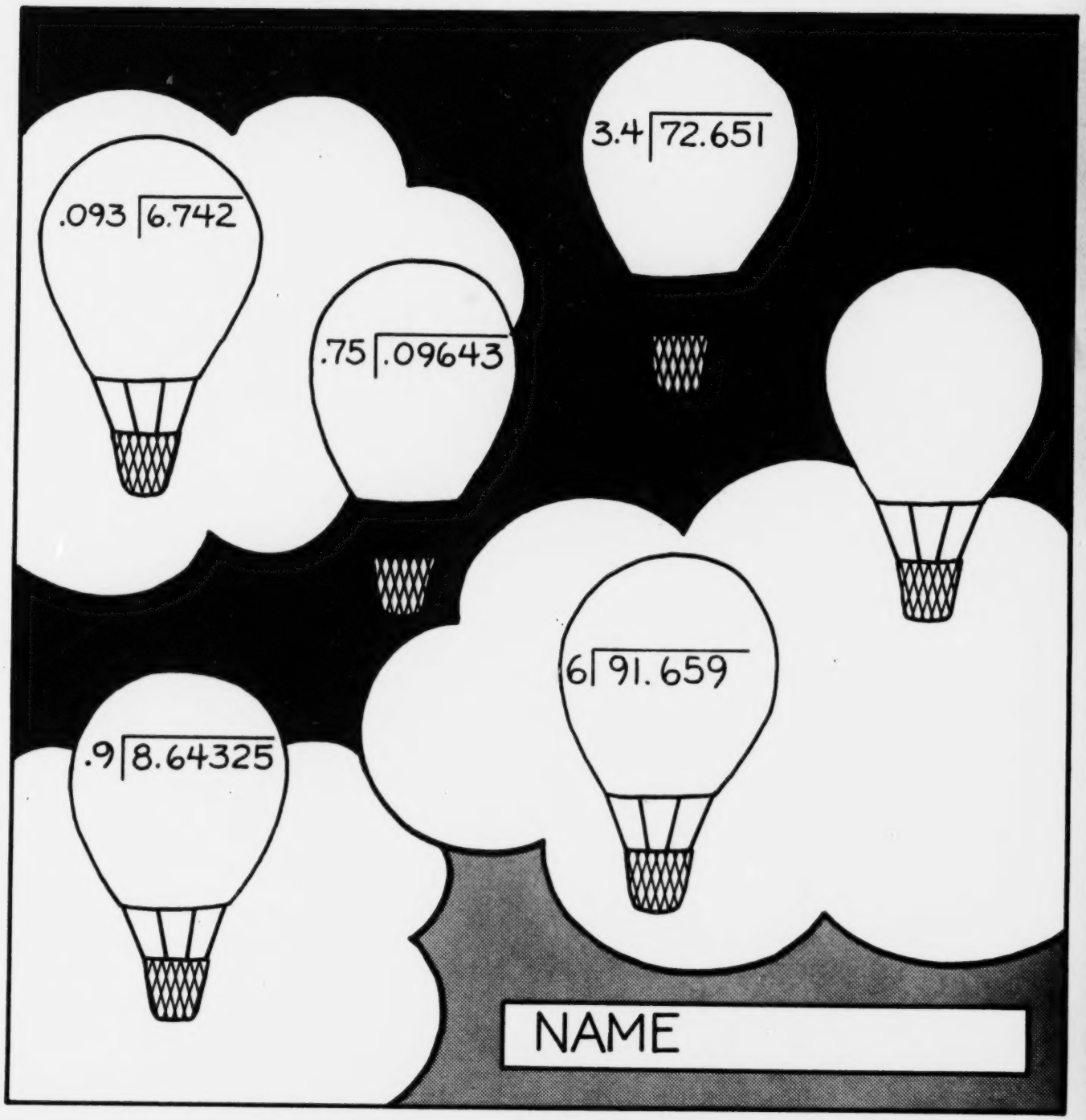
Draw a line matching each ball to a glove.



NAME _____

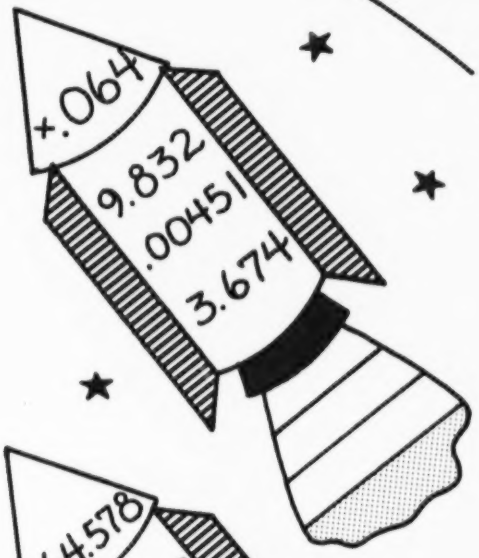
BALLOON RIDE

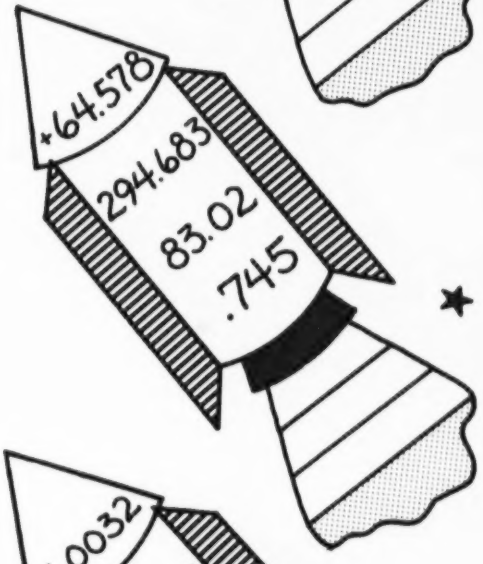
Work the problems. Make up one of your own and work it.

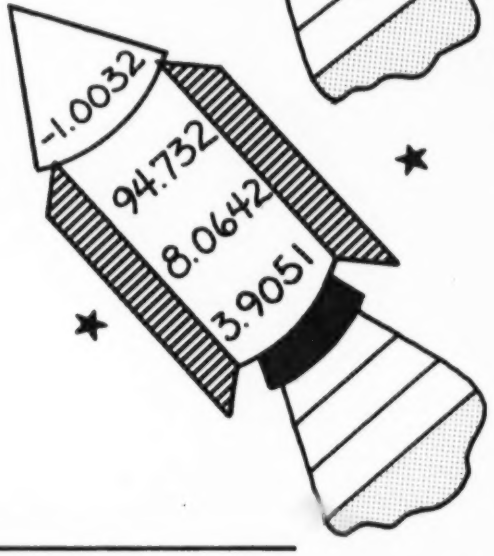


FIRE YOUR ROCKETS

Each rocket has four problems.
Work each part.







NAME _____

REPORT CARD

A There were 3,456 students in the school. Seventy-two of them received A's. What percent received A's? _____

B Ninety-four sixth graders received B's. Each of them received 6 B's each. How many B's did they get in all? _____ There are 150 students in the sixth grade. What percent made B's? _____

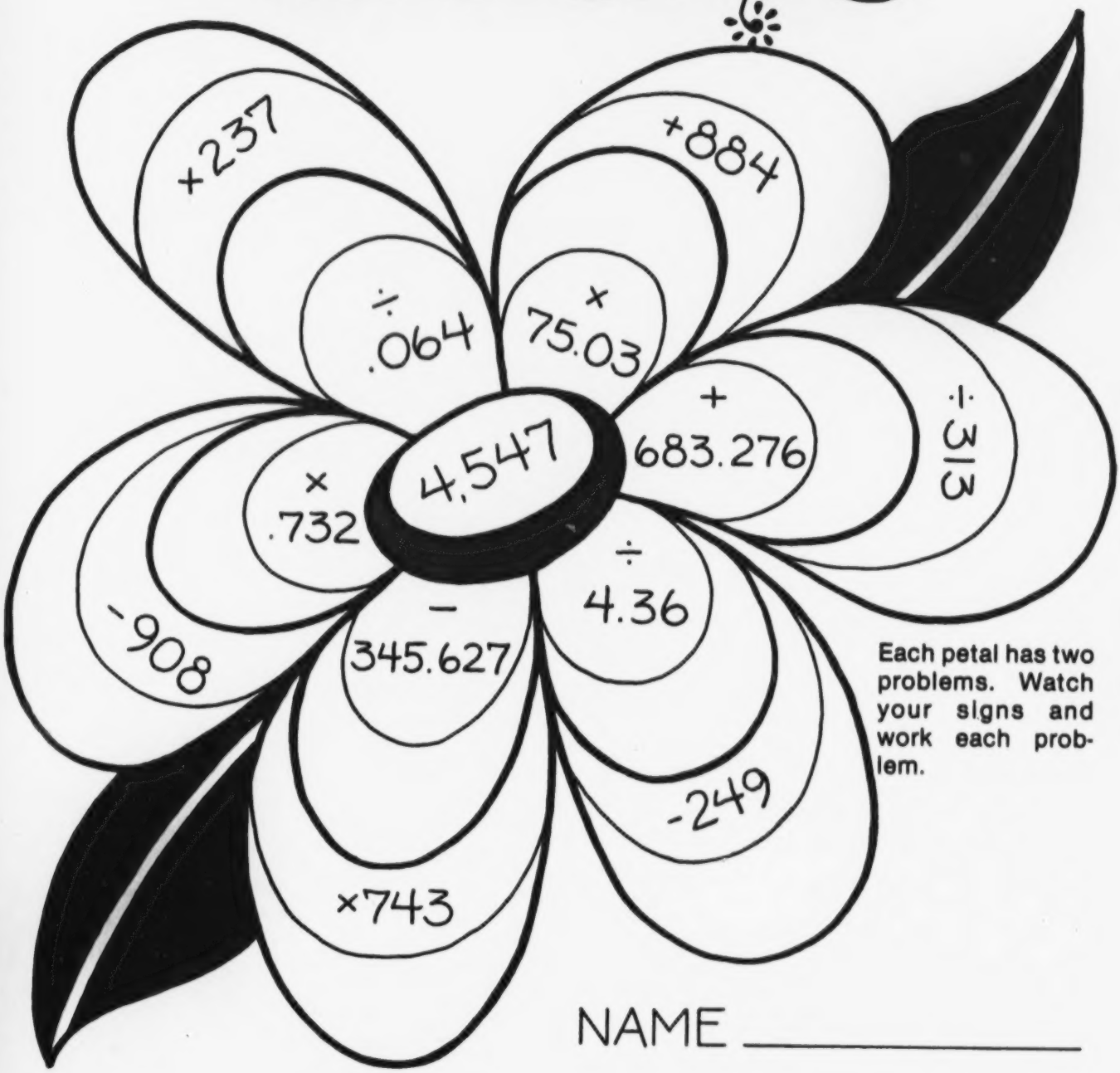
C There are 200 students (evenly divided between boys and girls) in the class. Seventy-five boys got C's in French, math, and English. Seventy-three girls got C's in science, P.E., and math. What is the total number of C's for both boys and girls? _____ What subject caused the most trouble? _____ What percentage of boys received C's? _____ What percentage of girls received C's? _____

D Only 4% of the 350 students received D's on their report cards. How many received D's? _____ In what subjects do you think they received these grades? _____

You make up a problem relating to your grades.

NAME _____

BLOOMING BLOOMS



Each petal has two problems. Watch your signs and work each problem.

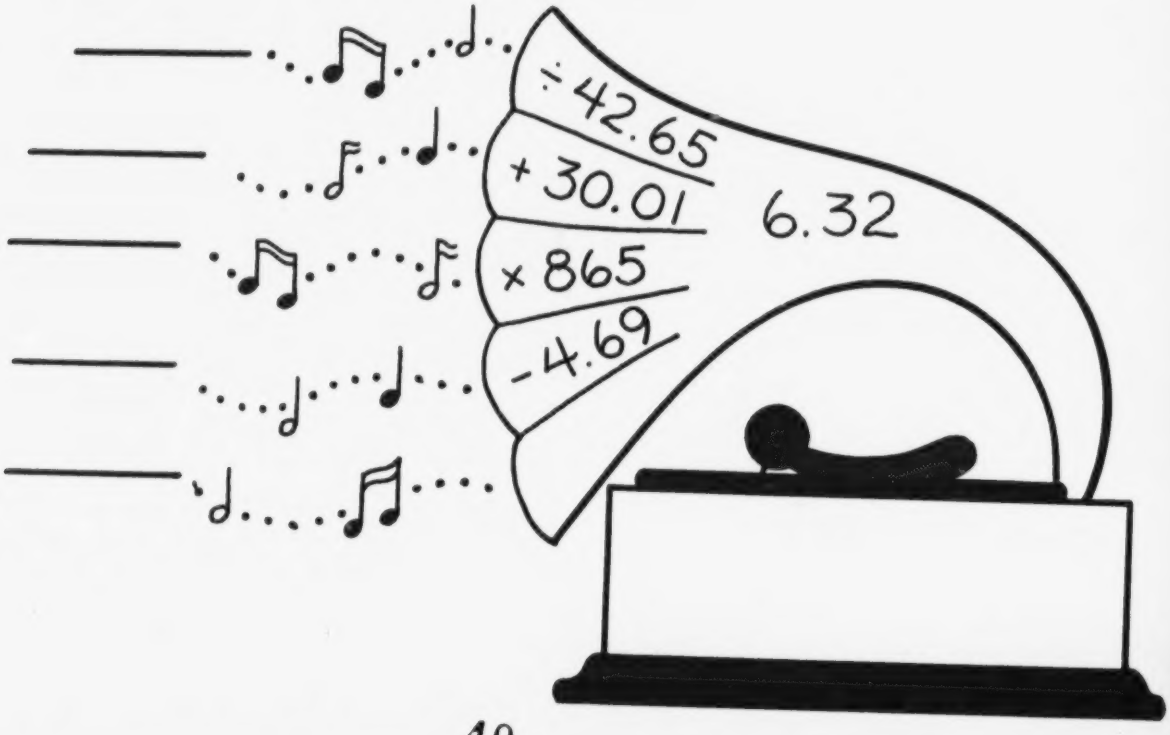
NAME _____

39

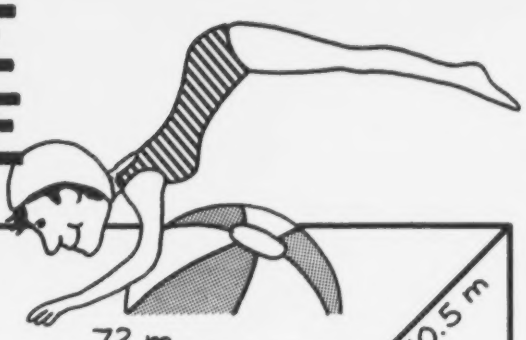
MATH MUSIC

Work each problem. Make up the last problem.

NAME



A PLEASURE TO MEASURE

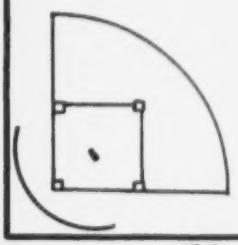


1) Find the perimeter in yards of the baseball field.

_____

2) Find the area in inches of this field.

_____



90 ft.

35 ft.

72 m

10.5 m

35 m

3) Find the volume of the pool.

_____

4) Find the area in centimeters of the pool. _____

105 ft.

20 ft.

13 ft.

25 ft.

25 ft.

63 ft.

70 ft.

5) Find the perimeter of this soccer field. Put your answer in yards. _____

6) Make a tennis court out of this field. Draw in the lines. What would your measurements be? _____

48 ft.

57 ft.

11 ft.

11 ft.

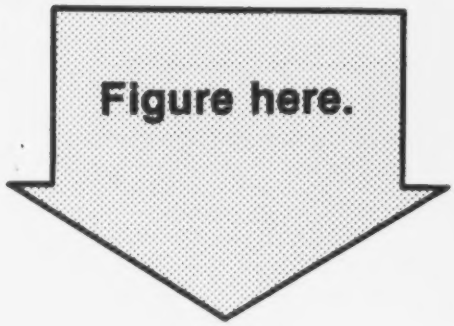
50 ft.

NAME

_____

WHAT'S THE PROBLEM?

You have the answers. Make up the problems. Be sure to include two of each property + − × ÷.



□ + − × ÷ □ = .2408

□ + − × ÷ □ = 427.86

□ + − × ÷ □ = 0.134

□ + − × ÷ □ = .545

□ + − × ÷ □ = .09642

□ + − × ÷ □ = 8.365

□ + − × ÷ □ = 101.08

□ + − × ÷ □ = 16.28

□ + − × ÷ □ = 1.233

□ + − × ÷ □ = 874.326

NAME _____

TRIP TO THE MOON

1. The rocket will leave Earth on Monday. It will orbit every 67 minutes. How many orbits will it make in 8,911 minutes?
   _____

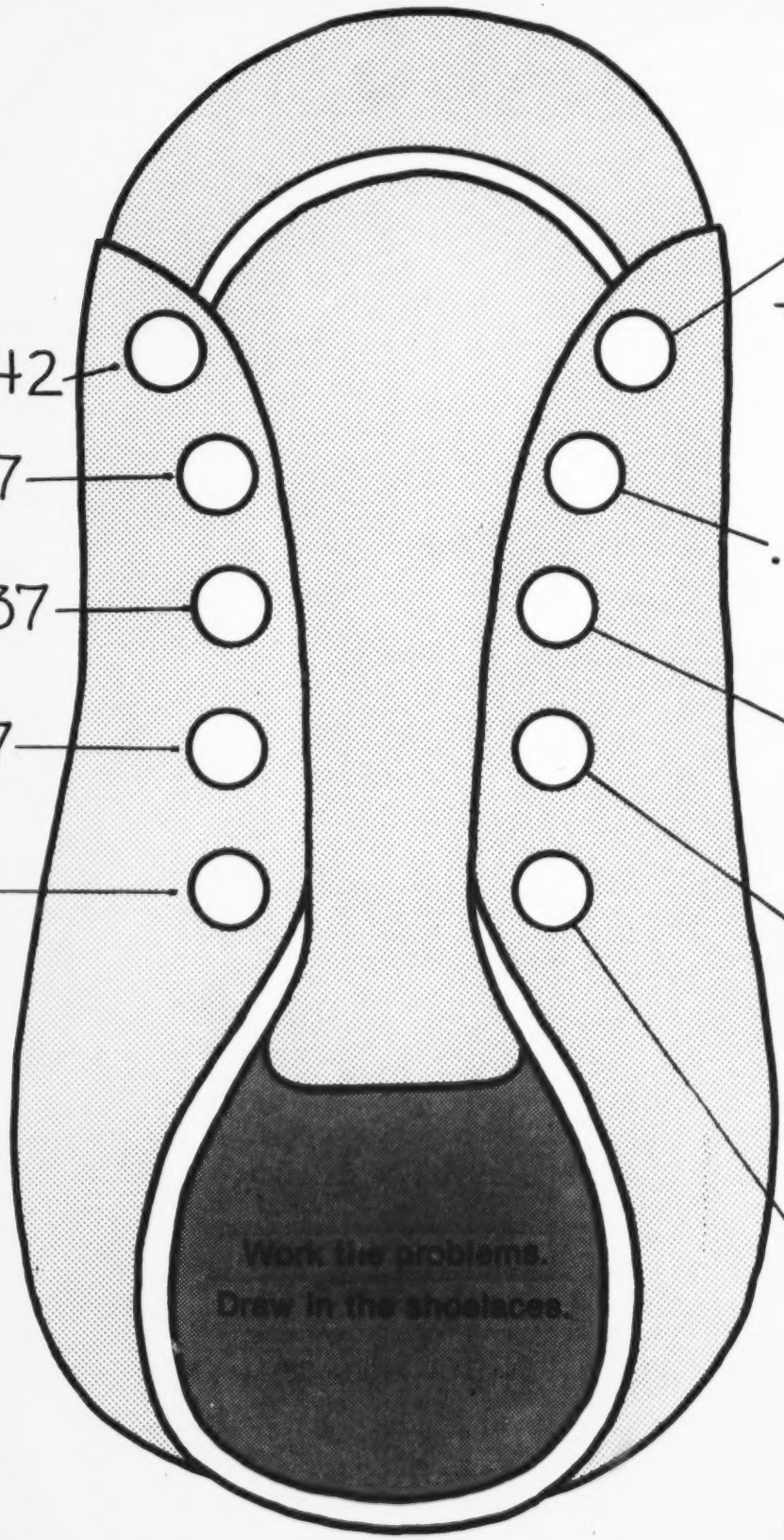
2. The rocket will travel at 875.04 miles per hour for 46 days. How many miles will the rocket travel? _____

3. The rocket has 26,354 inches in the front cabin and 17,542 inches in the back cabin. What is the total number of inches in both cabins? _____ In feet? _____

4. Four astronauts each ate 3 dozen eggs, 8 pints of strawberries and 3 quarts of milk every day for 24 days. How much did each astronaut eat for the 24 days?
   eggs_____
   strawberries_____
   milk_____

NAME _____

SHOELACES



.051642

44.687

48.537

.6687

1.12

6.754
.079
+ 37.698
.156

.32 ⟌ .3584

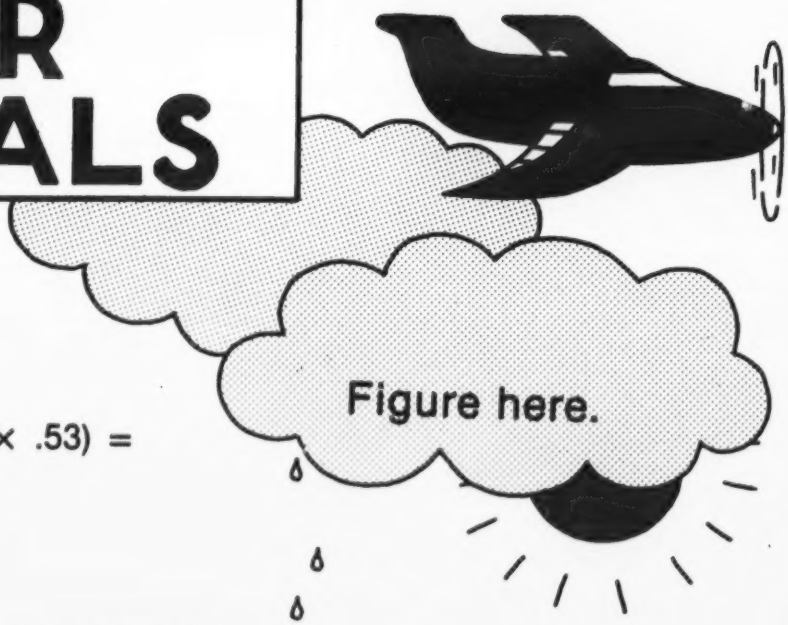
7.43
× .09

63.3
− 14.763

.906
× .057

NAME _____

SUPER SPECIALS



Work the problems.

1. (.0043 × 752.6) + (8.963 × .53) =

2. (2.75968 ÷ .49) + (87.432 + 659.3456) =

3. (3/8 × 2/5 × 1/3) + (6 2/5 + 3 1/10) =

4. (4/9 ÷ 2/9) + (8 3/4 − 5 1/6) =

5. (14 1/5 + 13 1/10 + 6 1/2) + (9 1/3 × 6 1/4) =

6. (8,365 + 7,894 + 6,052) + (96,542 − 53,408) + (942 × 45) =

NAME _____

DO YOUR OWN THING

NAME _____

+, −, ×, ÷ (at least 1 of each)	Decimals: +, −, ×, ÷
Fractions: +, −, ×, ÷	Percents (3)
	Word Problems (2)

TASK MASTER

NAME _____

1. 63,742 + 19,658 + 58,375

2. 94,563 − 29,875

3. 543 × 76

4. 4,396 × 254

5. $7\overline{)6{,}942}$

6. $84\overline{)736{,}532}$

7. .33 = _____%

8. .09 = _____%

9. 7/8 = _____%

10. 3/4 = _____%

11. 10% of 350 = _____

12. 24% of 784 = _____

13. 52% of 395 = _____

14. 38% of 90 = _____

15. 436.75 + 129.82 + 65.351 + .7632

16. 1,253.64 − 872.941

17. 45.672 × .038

18. $.763\overline{)5.4218}$

19. 3/5 + 2/3 =

20. 11 − 5 1/4 =

21. 8 × 3/8 =

22. 7 7/8 × 9 7/9 =

23. 4/7 ÷ 4 =

24. 4 1/2 + 6 3/8 =

25. 9 3/5 − 2 3/4 =

26. 9 3/5 × 3 3/4 =

27. 2/3 ÷ 1 1/2 =

28. 9 1/3 ÷ 4 2/3 =

29. I ate 3,600 calories today. Thirty percent were at lunch. How many calories were eaten at lunch?

_____

30. You bought 15 dozen doughnuts for school. You want to divide them evenly among 30 people in your class. How many would each person get?

_____

Answer Key

Page 1

341 less	63 less	19 less		14 more	54 more	345 more
31	309	353	372	386	426	717
523	801	845	864	878	918	1209
255	533	577	596	610	650	941
7148	7426	7470	7489	7503	7543	7834
894	1172	1216	1235	1249	1289	1580
62	340	384	403	417	457	748
645	923	967	986	1000	1040	1331
3220	3498	3542	3561	3575	3615	3906

Page 2

35,308 14,252 35,014 32,436 126,819
120,802 19,404 19,899

1st -126,819
2nd -120,802
3rd -35,308

Page 3

57,036	483,215	8,356	
− 12,968	− 197,828	× 6	
44,068	285,387	50,136	
			181,525
14,142			376,386
13,687	547	26	482,912
+ 25,987	× 39	× 84	+ 634,841
53,816	21,333	2,184	1,675,664

Page 4

1	2	3	4	5
17,982	5,970,584	92,897	8,254	1,416,394
6	7	8	9	10
8,254	5,970,584	Answers will vary.	92,987	17,982

Page 5

390 = 26 × 15
367 = 652 − 285
389 = 914 − 525
428 = 3,424 ÷ 8
477 = 2,862 ÷ 6
744 = 93 × 8
816 = 389 + 427
952 = 34 × 28

Page 6

2,975.6 ÷ 43 = 69.2
5,950.8 ÷ 36 = 165.3
4,835 ÷ 25 = 193.4
37,458 ÷ 90 = 416.2
17,436 ÷ 8 = 2179.5
12,480.3 ÷ 63 = 198.1
18,163 ÷ 82 = 221.5

Page 7

1. 2,876 animals and fish
   2,567 animals and fish
2. 152 monkeys
3. 9,708 animals
4. 201 birds
5. 523 morsels
   950 bottles

Page 8

69,452 ÷ 84 = 826 68/84 (Remainders will vary.)
5,643 × 54.23 = 306,008
181,332 ÷ 3,942 = 46
846 × 657 = 555,822
652,401 − 616,702 = 35,699
3,695 + 4,734 + 2,852 + 7,109 = 18,390

Page 9

Answers will vary.

Page 10

9/12 = 3/4 3/21 = 1/7 8/2 = 4
5/20 = 1/4 32/64 = 1/2 11/66 = 1/6
4/6 = 2/3 6/8 = 3/4

Page 11
3 lbs. 6 oz. = 54 oz.
86 oz. = 5 lbs. 6 oz.
5 gals. = 20 qts.
8 cups = 4 pts.
5 qts. 1 pt. = 11 pts.
32 qts. = 8 gals.
8 yds. = 24 ft.
59 in. = 4 ft. 11 in.
15 ft. = 5 yds.
3 mi. = 15,840 ft.
2 mi. 320 ft. = 3,626 yds. 2 ft.
.007 kg = 7 g
62 g = 62,000 mg
520 mg = .52 g
3.5 g = 3.500 mg
6 min. = 360 sec.
9 days = 216 hrs.
6 days 3 hrs. = 147 hrs.
64 mm = 6.4 cm
.08 cm = .8 mm
11 km = 11,000 m

Page 12
11/4 = 2 3/4 24/9 = 2 2/3 17/8 = 2 1/8
18/3 = 6 38/16 = 2 3/8 21/2 = 10 1/2
25/11 = 2 3/11 9/6 = 1 1/2 18/12 = 1 1/2

Page 13

8 3/8	15 2/5	154 5/6	253 3/7
+ 9 1/2	+ 18 1/3	+ 125 1/4	+ 145 1/3
17 7/8	33 11/15	280 1/12	398 16/21

	146 1/2	65 2/3
63 3/4	239 3/8	84 1/5
+ 75 5/8	+ 137 1/4	+ 39 3/10
139 3/8	523 1/8	189 1/6

Page 14
17 7/8 189 1/6 139 3/8
280 1/12 34 380 1/12
81 1/9 398 16/21

Page 15
2656, 2636, 2606, 2566, 2516, 2456, 2386
23, 38, 57, 81, 111, 148, 193, 247
427, 517, 467, 527, 507, 537, 547
396, 400, 408, 420, 436, 456, 480
750, 870, 930, 960, 975, 982.5, 986.25
1347, 1410, 1536, 1788, 2292, 3300
684, 659, 631, 599, 562, 605, 655, 713
955, 964, 970, 973, 973, 970, 964, 955

Page 16
6 1/4 5 1/12 17 2/3
39 11/18 26 3/8 47 5/24
76 3/7 111 1/10

Page 17
7 1/2 × 5 1/3 = 40
4/9 × 3/8 = 1/6
1/8 × 4/5 = 1/10
2/3 × 9/10 = 3/5
3/22 × 11/12 = 1/8
10 × 9/10 = 9
5/8 × 4/15 = 1/6
3/8 × 1/3 = 1/8
5/7 × 21/25 = 3/5
4/9 × 90 = 40
3/4 × 2/15 = 1/10
3/4 × 12 = 9

Page 18
7 1/3 × 2 2/11 = 16
7 5/9 × 5 5/8 = 42 1/2
3/8 × 6 5/9 = 2 11/24
2 2/5 × 5 5/6 = 14
5/6 × 3 3/10 = 2 3/4
1 1/2 × 9 3/5 = 14 2/5
3 3/4 × 8 = 30

Page 19
3/5 ÷ 2/5 = 1 1/2
3/4 ÷ 5/12 = 1 4/5
7/8 ÷ 3/10 = 2 11/12
6 1/8 ÷ 7 = 7/8
3 1/3 ÷ 4 1/9 = 30/37
5 2/5 ÷ 9 = 3/5

Page 20

E	O	A	H	T
32 1/6	7 25/28	55	1/3	2
K	U	S	F	M
5	4 2/3	7	2 1/2	6 5/6
R	B	I	N	G
60 7/8	20	1 3/5	4 2/3	1142 1/18
C	P	D	L	Y
26 2/9	8 23/24	2/3	24/25	35

Page 21

6 3/5	8 3/4	74 4/9
− 2 2/3	− 3 1/2	− 19 1/3
3 14/15	5 1/4	55 1/9

3/8 × 4/5 = 3/10
7/9 × 3/7 = 1/3
3/4 × 6/15 = 3/10
8/9 × 6/7 = 16/21

6 3/4	9 1/8
5 3/8	14 3/4
+ 7 5/6	+ 2 1/2
19 23/24	26 3/8

11 4/5	5 2/3	11 1/3
3 1/2	6 1/9	15 5/9
+ 26 7/10	+ 14 1/3	+ 13 5/18
42	26 1/9	40 3/18

4 1/4	9/10 + 3/8 = 2 2/5
11 2/6	5/6 + 5/8 = 1 1/3
+ 6 8/12	8/9 + 4 = 2/9
22 1/4	4 + 8/9 = 4 1/2

Page 22

0— -7 — -5 — +4 — +6 — +3 — +2 — -3 = 0

Page 23

80% = 4/5
74% = .74
35% = .35
135% = 1 7/20
20% = 1/5
50% = 1/2

Page 24

1. $552.50 sale price
2. $18.00 total amount
3. $16.50 books
   $13.50 saved
4. $22.85 for all 3 items
   yes, $2.15

Page 25

10% = 1/10
65% = 65/100 = 13/20
130% = 1 3/10
32% = 8/25
240% = 2 2/5
86% = 43/50
110% = 1 1/10

3/4 = 75%
8 1/10 = 810%
4 1/4 = 425%
6/25 = 24%
3/20 = 15%
6 1/5 = 620%
17/50 = 34%

.8 = 80%
.04 = 4%
.564 = 56.4%
.025 = 2.5%
.1275 = 12.75%
.0032 = .32%
.25 = 25%

Page 26

1. 3/8 of a mile
2. 36 miles
3. 1/8 of a mile
4. 45 boys
   15 girls
5. 9 9/32 times

Page 27

.08	.9	3 2/3
.25	4/3	17/4
3/4	1.4	13/3
8/9	3.2	4.5

Page 28

9.874	.8942	.5968	8.45
× .036	× .065	× 79	× 92.8
.355464	.058123	47.1472	784.160

74.82	4.06
× 16.4	× .87
1227.048	3.5322

Page 29

72.49 or 72.5
.093 ⟌ 6.742

.12857 or .1286
.75 ⟌ .09643

9.604
.9 ⟌ 8.64325

15.2765
6 ⟌ 91.659

21.368 or 21.37
3.4 ⟌ 72.651

Page 30

+ 7.6	× 9.03	+ .042	× .064
10.95	.3906	.1769	.6292
51.91	7472.32	205.285	.00028
.01297	35.57	908.809	.23513

+ 64.578	− 1.0032
359.261	93.7288
147.598	7.061
65.323	2.9019

Page 31

A. 2%
B. 564 B's
63%
C. 444 total # of C's
math
75% boys
73% girls
D. 14 D's

Page 32

× 237	+ .064	+ 884
1,077,639	71,046.875	5431
+ 683.276	− 249	+ 4.36
5230.276	4298	1042.89
− 908	× .732	× 75.03
3639	3328.404	341,161.41
× 743	+ 313	− 345.627
3,378,421	14.527	4201.373

Page 33

+ 453.2 = 453.2783
× 94.3 = 7.3837
+ 82.46 = .0009
− .0048 = .0735
+ 42.65 = .1482
+ 30.01 = 36.33
× 865 = 5466.8
− 4.69 = 1.63

Page 34

1. 83 1/3 yds.
2. 453,600 sq. in.
3. 26,760 cubic m
4. 7,560,000 cm
5. 166 yds.
6. Answers will vary.

Page 35

Answers will vary.

Page 36

1. 133 orbits
2. 966,044.16 miles
3. 43,896 in. 3,658 feet
4. 1,728 eggs
   192 pts. strawberries
   72 qts. milk

Page 37

shoelaces match up (answers on right side)
from top to bottom
44.687
1.12
.6687
48.537
.051642

Page 38

1. 7.98657
2. 752.4096
3. 9 11/20
4. 5 7/12
5. 92 2/15
6. 107,835

Page 40

1. 141,775	7. 33%	13. 205.4
2. 64,688	8. 9%	14. 34.2
3. 41,268	9. 87.5%	15. 632.6842
4. 1,116,584	10. 75%	16. 380.699
5. 991.71	11. 35	17. 1.735536
6. 8768.238	12. 188.16	18. 7.1058

19. 1 4/15	25. 6 17/20
20. 5 3/4	26. 36
21. 3	27. 4/9
22. 77	28. 2
23. 1/7	29. 1080
24. 10 7/8	30. 6

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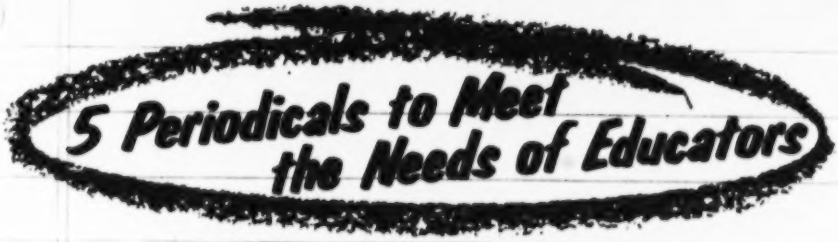

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